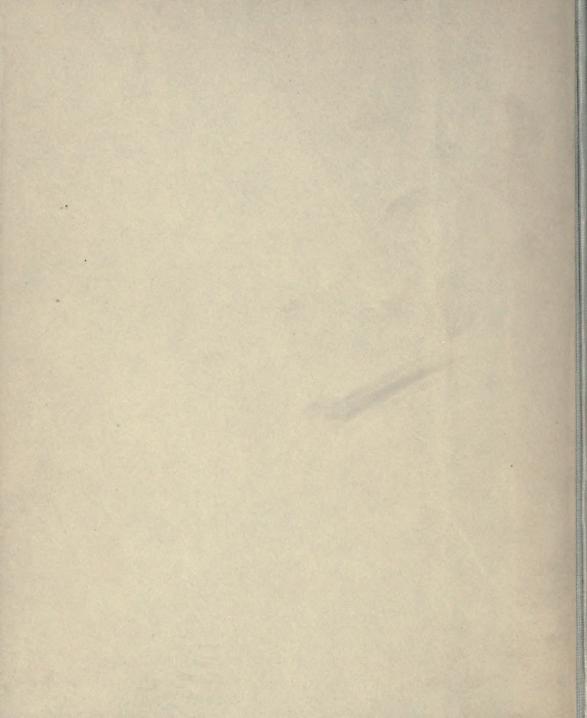


QK 308 C8

> Univ.of Toronto Library



Digitized by the Internet Archive in 2008 with funding from Microsoft Corporation



Aberdeen University
Studies: No. 54

335



The Flora of Banffshire

132016

University of Aberdeen.

COMMITTEE ON PUBLICATIONS.

Convener: Professor James W. H. TRAIL, F.R.S., Curator of the Library.

UNIVERSITY STUDIES.

General Editor: P. J. Anderson, LL.B., Librarian to the University.

```
No. 1,—Roll of Alumni in Arts of King's College, 1596-1860. P. J. Anderson.

No. 2.—Records of Old Aberdeen, 1157-1891. A. M. Munro, F.S.A. Scot. Vol. I.

No. 3.—Place Names of West Aberdeenshire. James Macdonald, F.S.A. Scot.

No. 4.—Family of Burnett of Leys. George Burnett, LL.D., Lyon King of Arms.

No. 5.—Records of Invercauld, 1547-1828. Rev. J. G. Michie, M.A.

No. 6.—Rectorial Addresses in the Universities of Aberdeen, 1835-1900. P. J. Anderson.

No. 7.—Albemarle Papers, 1746-48. Professor C. S. Terry, M.A.

No. 8.—House of Gordon. J. M. Bulloch, M.A. Vol. I.

No. 9.—Records of Elgin. William Cramond, LL.D. Vol. I.

No. 10.—A vogadro and Dalton. A. N. Meldrum, D.Sc.

No. 11.—Records of the Sheriff Court of Aberdeenshire. David Littlejohn, LL.D. Vol. I.

No. 12.—Proceedings of the Anatomical and Anthropological Society, 1902-04.

No. 13.—Report on Alcyonaria. Professor J. Arthur Thomson, M.A., and others.

No. 14.—Researches in Organic Chemistry. Prof. F. R. Japp, F.R.S., and others.

No. 15.—Meminisse Juvat: with Appendix of Alakeia. Alexander Shewan, M.A.

No. 16.—Blackhalls of that Ilk and Barra. Alexander Morison, M.D.

No. 17.—Records of the Scots Colleges. Vol. I. P. J. Anderson.

No. 18.—Roll of the Graduates, 1800-1900. Colonel William Johnston, C.B., M.D., LL.D.

No. 19.—Studies in the History and Art of the Eastern Provinces of the Roman Empire.

Professor Sir W. M. Ramsay, D.C.L., and pupils.

No. 21.—Studies in Pathology. William Bulloch, M.D., and others.

No. 22.—Proceedings of the Anatomical and Anthropological Society, 1904-06.

No. 23.—Subject Catalogues of the Science Library and the Law Library. P. J. Anderson.

No. 26.—Surgical Instruments in Greek and Roman Times. J. S. Milne, M.A., M.D.

No. 26.—Surgical Instruments in Greek and Roman Times. J. S. Milne, M.A., M.D.

No. 28.—Flosculi Gracci Boreales. Ser. II. Professor John Harrower, M.A.

No. 29.—Records of the Outerfeeners, 1906. P. J. Anderson.
1901.
1902.
  1905.
    1907.
                                                        No. 28.—Flosculi Gracci Boreales. Ser. II. Professor John Harrower, M.A. No. 29.—Record of the Quatercentenary, 1906. P. J. Anderson. No. 30.—House of Gordon. J. M. Bulloch, M.A. Vol. II. No. 31.—Miscellany of the New Spalding Club. Vol. II.
1908.
                                                        No. 31.—Miscellany of the New Spalding Club. Vol. II.
No. 32.—Religious Teachers of Greece. James Adam, Litt. D. (Gifford Lectures, 1904-06.)
No. 33.—Science and Philosophy of the Organism. Hans Driesch, Ph.D. (Giff. Lect., 1907.)
No. 34.—Proceedings of the Anatomical and Anthropological Society, 1906-08.
No. 35.—Records of Elgin. Vol. II. Rev. S. Ree, B.D.
No. 36.—Pigmentation Survey of School Children. J. F. Tocher, B.Sc.
No. 37.—Science and Philosophy of Organism. Hans Driesch, Ph.D. Vol. II. (Giff. Lect., 1908.)
No. 38.—Studies on Aleyonarians and Hydroids. Prof. Thomson, M.A., and others. Ser. III.
1909.
                                                      No. 38.—Studies on Alcyonarians and Hydroids. Prof. I nomson, M.A., and others. Ser. II.
No. 39.—Publications of Scottish Clubs. Professor C. S. Terry, M.A.
No. 40.—Aberdeen Friars: Red, Black, White, Grey. P. J. Anderson.
No. 41.—Studies on Alcyonarians. Professor Thomson, M.A., and others. Ser. IV.
No. 42.—Records of Old Aberdeen. A. M. Munro. Vol. II.
No. 43.—Mssa Latina Aberdonensis: Poetae Minores. W. K. Leask, M.A.
No. 44.—Bulletins of the Aberdeen and North of Scotland College of Agriculture. Nos. 1-14.
No. 45.—Records of Inverness. W. Mackay and H. C. Boyd. Vol. I.
No. 46.—Zoological Studies. Professor Thomson and others. Ser. V.
No. 47.—Subject Cachogue of the Phillips Library.
TOTO.
1911.
                                                    No. 46.—Zoological Studies. Professor Thomson and others. Ser. V.
No. 47.—Subject Catalogue of the Phillips Library.
No. 48.—Zoological Studies. Professor Thomson and others. Ser. VI.
No. 49.—Anacreontic Poetry of Germany. John Lees. D.Litt.
No. 50.—Creeds and Confessions of Faith. Professor W. A. Curtis, D.Litt.
No. 51.—Aberdeen Alumni at Other Universities. Part I. Professor J. Harrower, LL.D.
No. 52.—Royal Fishery Companies. J. R. Elder, M.A.
No. 53.—Zoological Studies. Professor Thomson and others. Ser. VII.
No. 54.—Flora of Banfishire. W. G. Craib, M.A.
No. 55.—Catalogue of Anthropological Museum. Professor R. W. Reid, M.D.
```

The Flora of Banffshire

By
William Grant Craib, M.A.

Aberdeen
Printed for the University
MCMXII

The Flora of Bangshill

9K 308 c8

Trine of the District

PRESENTED, 2nd November 1911.

do win ve discour as lores !

PAPER ON "THE FLORA OF BANFFSHIRE" BY WILLIAM G. CRAIB, M.A.

Moved by the publication of the Flora of Buchan by Professor Trail, of Aberdeen University, by the very meagre information to be got for Banffshire from Professor Dickie's Botanist's Guide, and by the publication of two or three local lists in the Transactions of the Banffshire Field Club, its indefatigable secretary, Mr John Yeats, M.A., conceived the idea that by the systematic co-operation of botanists throughout the county it might be possible to collect such information regarding the distribution of plants in Banffshire as might be worthy of a place in the Club's Transactions. Being responsible for one of the local lists referred to, I was induced by the Secretary and by Mr Grant, the treasurer, to undertake the task with the aid of such botanists and collectors as might be available. Such is the origin of the following botanical survey of the County of Banff.

The area at first contemplated was not the rather artificial geographical area of the county, but the more natural region between the rivers Deveron and Spey, including these river basins. The lack of botanists, however, or more probably their modesty, led to the enforced curtailment of this wider scheme, and only Banffshire proper, with the addition of a few outside parishes on the banks of the rivers named, has been surveyed. The task, though thus restricted, has been no light one. Banffshire, with a seaboard of 32 miles, and a stretch inland in a south-westerly direction of 67 miles, reaching the high elevation of 4296 feet in Ben Mac Dhui, with many other mountains and mountain ranges scarcely inferior in height, bounded by two large rivers and intersected by numerous streams and rills, with all the variations in soil, climate, and rainfall that such a configuration implies affords a field for the botanist of great variety and extent.

The general plan of the work is the same as Professor Trail's Flora of Buchan, to which it may be looked upon as a companion, seeing that three parishes—Gamrie, King-Edward, and Turriff—occur in both, as does also that part of the parish of Alvah lying to the East of Deveron. All the records in the Flora of Buchan are based on Professor Trail's personal observations, but here, where there has been collaboration, the symbols employed are necessarily different, and may be thus explained:—

- o denotes old records not verified during the progress of this work.
- x -,, records by Professor Trail.

! denotes records by myself.

Dry ,, that I have seen a dried specimen of the particular plant from that parish.

* ,, records by the following botanists in the parishes against their names :-

Cullen—Mr James Ritchie, M.A., B.Sc. (records extracted from Professor Trail's record books).

Fordyce and Boyndie-Mr G. D. Thomson, M.A., Kindrought.

Alvah—Miss J. A. Fraser, M.A., Linhead (collection made for the Dickie prize); Mr G. K. Fraser, M.A., Linhead.

Forglen-Mr Stuart, Gardener, Forglen House; Mr G. K. Fraser, M.A., Linhead.

Marnoch-Mr G. K. Fraser, M.A. (collection made for the Dickie prize).

Rothiemay-Miss Jeannie Geddes, M.A.

Cabrach-Mr J. S. Burns, M.A., and Mr J. Yeats, M.A.

Inveravon—Mr Watt, Jun., M.A., B.Sc., Knockando (collection made for the Dickie prize); and Mr Laurence Watt, Glasgow.

Aberlour-Mr John White, M.A., The Orphanage, Aberlour.

Kirkmichael--Mr James J. Burgess, M.A., Dyke.

Knockando-Mr C. Watt, Senr., M.A., Knockando.

Ordiquhill-Mr A. Donald, M.A., Ordiquhill Schoolhouse.

Keith—Mr Henry (collection made for Dickie prize, records extracted from Prof. Trail's record books), and Mr G. Petrie Hay, M.A.

Mortlach-Mr Laurence Watt, Glasgow.

To these botanists my best thanks are due for their painstaking work and able assistance. It is impossible here to specify or to attempt to gauge how much the work is indebted to Professor Trail for records in every parish, which he has very generously placed at my disposal. A glance at the tabular statements will at once show that without these records the Flora would have been much less complete.

I am deeply indebted to several other botanists for generous help in the determination of critical species. Mr W. Barclay, Perth, has not only very kindly named all the specimens of the genus Rosa, but, being well acquainted with Banffshire, he has also written up the distribution of that genus from his own personal observation and from specimens forwarded. The Rev. E. F. Linton has determined several consignments of Hieracia, chief among which may be mentioned a large collection from Gamrie, which yielded several novelties for

Banffshire. All specimens of the genus Rubus which were sent to me, or were collected by me, have been named by Rev. W. M. Rogers.

With regard to the recent lists in the Transactions of the Banffshire Field Club, viz., that of the Boyne district by Mr Thomson, Kindrought, and that of the Banff district by myself, these may be taken to be superseded by the present list. Mr Thomson has kindly forwarded to me notes giving several additions to his previous list, a few corrections, and full notes of the parishes in which the plants were found by him.

The Rev. Dr. W. S. Bruce, of Banff, has also contributed to the Transactions several papers dealing with the Flora of Banffshire; but, unfortunately, these papers are practically useless for the present work, owing either to the localities mentioned being too vague, or to the use of local names of the plants. He records Carex incurva and Senebiera Coronopus for Banff, and Pyrola secunda for Alvah, plants which I have been unable to find in the districts mentioned. There is still another published list dealing with part of the district under review: a list for the Parish of Cairnie, given in Pirie's "Parish of Cairnie" (1906). As this list contains several mistakes, I prefer to omit the records contained in it, and to rely on the records of Prof. Trail for that parish.

The most difficult, though most pleasant, duty remains, to express my heartfelt thanks, however inadequately, to Mr Yeats. To him, the originator and inspirer of this Flora, has fallen the arduous task of maintaining the correspondence with the local workers which such a work involves. This from the beginning of the enterprise he has most ungrudgingly performed, sparing neither valuable time nor advice.

With regard to the old records, it is matter of regret that space does not allow of a complete list, but below is appended a list of the old records cited. So far as possible only the earliest records are given, but as they have been extracted from various sources, and as all the original authorities have not been examined by me, it is possible that there may be mistakes and omissions.

The following is a list of the contractions used for the works cited:-

B.G. ... Dickie's "Botanist's Guide."

N.F. ... Dr Murray's "Northern Flora."

S.A. "New Statistical Account of Scotland."

F.B. ... Professor Trail's "Flora of Buchan," including the Supplement.

Ed. ... Tom Edward (communicated by Professor Trail).

M. ... Marshall and Shoolbred, Kirkmichael, Journ. Bot. 1906, pp. 154-161.

RANUNCULACEÆ.

Thalictrum minus, Linn.-Rathven, B.G.; Cullen, B.G.

Anemone nemorosa, Linn.-King Edward, S.A.; Turriff, F.B.

A. apennina, Linn.-Bathven, S.A.

Ranunculus aquatilis, Linn.-King Edward, F.B.; Turriff, F.B.

- R. fluitans, Lam.-King Edward, F.B.
- R. Lenormandi, F. Schultz-Alvah, F.B.
- R. hederaceus, Linn.-Turriff, F.B.
- R. sceleratus, Linn.-Alvah, B.G.
- R. Flammula, Linn.—Turriff, F.B.
 b. radicans, Nolte—Gamrie, F.B.; King Edward, F.B.; Turriff, F.B.
- R. scoticus, E. S. Marshall-Kirkmichael, M.
- R. acris, Linn., b. Friesianus, R. & F.-Turriff, F.B.
 - c. Bormanus, (Jord.)-Turriff, F.B.
 - e. rectus, (Jord.)-Turriff, F.B.
- R. bulbosus, Linn.-Rathven, B.G.; Alvah, B.G.; Turriff, Skene; Mortlach, B.G.
- R. Ficaria, Linn.-King Edward, F.B.; Turriff, F.B.

Caltha radicans, Forster-Kirkmichael, M.

Trollius europæus, Linn.—Alvah, B.G.

BERBERIDACEÆ.

Berberis vulgaris, Linn.-King Edward, F.B.

PAPAVERACEÆ.

Papaver Rheeas, Linn.-Alvah, F.B.

P. dubium, Linn.-Grange, S.A.

Chelidonium majus, Linn.—Mortlach, B.G.

FUMARIACEÆ.

Corydalis claviculata, DO.-Mortlach, B.G.

Fumaria capreolata, Linn.-Turriff, F.B.; Grange, S.A.

- F. Bastardi, Bor.-Camrie, F.B.; King Edward, F.B.; Turriff, F.B.
- F. officinalis, Linn.-Turriff, F.B.; Grange, S.A.

CRUCIFERÆ

Barbarea vulgaris, Ait.-King Edward, F.B.

Arabis petræa, Linn., b. hispida, DC.-Kirkmichael, M.

Cardamine amara, Linn.-Turriff, F.B.; Mortlach, B.G.

C. pratensis, Linn.-Turriff, F.B.

b. dentata, (Schultes)-Kirkmichael, M.

- C. hirsuta, Linn.-Turriff, F.B.; Grange, S.A.
- C. flexuosa, Linn.—King Edward, F.B.; Turriff, F.B. praba incana, Linn.—Boyndie, Ed.; Kirkmichael, M.
 - D. rupestris, Br.-Kirkmichael, B.G.

Erophila vorna, E. Mey.-Turriff, F.B.; Grange, S.A.

Cochlearia alpina, Wats.-Kirkmichael, M.

Sisymbrium Thalianum, Gay-Banff, Ed.; Alvah, B.G.; King Edward, F.B., Kirkmichael, M.

6. officinale, Scop.-Grange, S.A.

S. Alliaria, Scop.-Mortlach, B.G.

Brassica alba, Boiss.—Gamrie, F.B.

Coronopus procumbens, Gilib.-Gamrie, F.B.; Banff, Bruce (v. Introd.)

Lepidium sativum, Linn.-Rathven, Ed.

L. heterophyllum, Benth., b. canescens, Gren. & Godr.—Mortlach, B.G. Thiaspi arvense, Linn.—Rathven, Ed.; Gamrie, F.B.; Alvah, B.G.; Mortlach, B.G. Iberis amara, Linn.—Cullen, Ed.

RESEDACEÆ.

Reseda Luteola, Linn.-Rathven, B.G.; Mortlach, B.G.

R. odorata, Linn.-Cullen, Ed.

CISTACEÆ.

Helianthemum Chamæcistus, Mill.—Rathven, B.G.; Alvah, S.A.; Turriff, F.B.; Mortlach, B.G.

VIOLACEÆ.

Viola palustris, Linn.-King Edward, F.B.; Turriff, F.B.

V. tricolor, Linn.-King Edward, F.B.

V. arvensis, Murr.-Turriff, F.B.

V. lutea, Huds., & f. amoena, (Symons)-Kirkmichael, M.

V. Cornuta, Linn.-Turriff, F.B.

POLYGALACEÆ.

Polygala vulgaris, Linn.-Kirkmichael, M.

P. serpyllacea, Weihe-King Edward, F.B.

CARYOPHYLLACEÆ.

Silene latifolia, Rendle & Britten-Mortlach, B.G.

S. anglica, Linn.-Rathven, Ed.

S. dichotoma, Ehrh.-Kirkmichael, M.

Lychnis alba, Mill.-Mortlach, B.G.

L. Githago, Scop.—Gamrie, F.B.; Turriff, F.B.; Grange, S.A. Gerastium semidecandrum, Linn.—Alvah, B.G.; Grange, S.A.

C. viscosum, Linn., b. apetalum, Dum.-Alvah, F.B.; King Edward, F.B.; Turriff, F.B.

C. alpinum, Linn., b. pubescens, Syme-Kirkmichael, M.

C. arvense, Linn.-Turriff, S.A.; Mortlach, B.G.

C. cerastoides, Britton—Kirkmichael, B.G.
Stellaria nemorum, Linn.—Alvah, F.B.; Turriff, S.A.

S. Holostea, Linn.-King Edward, F.B.

S. uliginosa, Murr.-King Edward, F.B.; Turriff, F.B.

Arenaria trinervia, Linn.-Alvah, B.G.

A. leptoclados, Guss.-Kirkmichael, M.

Sagina ciliata, Fr.-Gamrie, F.B.

S. saginoides, Dalla Torre-Kirkmichael, M.

S. subulata, Presl.-Kirkmichael, M.; Aberlour, B.G.

S. nodosa, Fenzl.-Alvah, B.G.; Mortlach, B.G.

Spergularia rubra, Pers.-Grange, S.A.

PORTULACACEÆ.

Montia fontana, Linn.-Turriff, F.B.

HYPERICACEÆ.

Hypericum perforatum, Linn.-Alvah, S.A.; Grange, S.A.

- quadratum, Stokes-Alvah, B.G.; Turriff, F.B. H.
- H. humifusum, Linn.-Gamrie, F.B.; Mortlach, B.G.
- H. hirsutum, Linn.-Kirkmichael, M.

MALVACEÆ.

Lavatera arborea, Linn.-Rathven, Ed.

Malva moschata, Linn.-Turriff, F.B.; Cairnie, P.S.

sylvestris, Linn.-Turriff, F.B.; Mortlach, B.G.

TILIACEÆ.

Tilia intermedia-Bellie, S.A.

LINACEÆ.

Radiola linoides, Both.-Alvah, B.G. Linum catharticum, Linn.-King Edward, F.B.

GERANIACEÆ.

Geranium sylvaticum, Linn.-Gamrie, F.B.; King Edward, S.A.

- pratense, Linn.-Cullen, S.A.; Gamrie, F.B.; King Edward, S.A.; Kirkmichael, B.G. G.
- C. dissectum, Linn.-Grange, S.A.
- G. lucidum, Linn,-Kirkmichael, M.
- G. Robertianum, Linn.-Grange, S.A.

b. modestum, (Jord.)-Kirkmichael, M.

Oxalis Acetosella, Linn.-Turriff, F.B.

RHAMNACEÆ.

Rhamnus catharticus, Linn.-Alvah, B.G.

LEGUMINOSÆ.

Cenista anglica, Linn.-King Edward, S.A.; Grange, S.A.

Ononis repens, Linn.-Alvah, B.G.; Aderlour, Ed.; Mortlach, B.G.

Medicago sativa, Linn.-Rathven, Ed.

lupulina, Linn.-Grange, S.A.

Molilotus alba, Desr.-Rathyen, Ed.

officinalis, Lam.-Rathven, Ed.; Gamrie, F.B.

Trifolium arvense, Linn.-Boyndie, Ed.; Alvah, B.G.

striatum, Linn.-Boyndie, Ed. Т.

agrarium, Linn.-Gamrie, F.B. T.

Anthyllis Vulneraria, Linn.-King Edward, F.B.

Astragajus glycyphyllos, Linn.—Boyndie, B.G.

Ornithopus perpusillus, Linn.-Alvah, B.G.

Vicia hirsuta, Gray-Alvah, B.G.

- sativa, Linn.-King Edward, F.B.; Turriff, F.B. ٧.
- ٧. angustifolia, Linn.-Alvah, B.G.; King Edward, F.B.; Turriff, F.B.; Grange, S.A.; Mortlach, B.G.
- lathyroides, Linn.-Alvah, B.G.

Lathyrus montanus, Bernh.-King Edward, F.B.; Turriff, F.B.

b. tenuifolius, Roth.-Turriff, S.A.

ROSACEÆ.

Prunus spinosa, Linn.-King Edward, F.B.; Turriff, F.B.

- avium, Linn.-Gamrie, F.B.; Turriff, F.B.
- P. Cerasus, Linn.—Alvah, B.G.
- P. Padus, Linn.-Turriff, F.B.

Spiraea salicifolia, Linn.-Gamrie, F.B.; King Edward, F.B.

Rubus plicatus, Wh. & N.-Alvah, F.B.

- R. melanoxylon, Muell. & Wirtg.-Gamrie, F.B.; Turriff, F.B.
- R. infestus, Weihe-Gamrie, F.B.; Alvah, F.B.; King Edward, F.B.
- R. radula, Weihe-Gamrie, F.B.
- R. Koehleri, Wh. & N.-Gamrie, F.B.
- R. corylifolius, Sm.-Alvah, S.A.; King Edward, F.B.
- R. saxatilis, Linn.-Alvah, B.G.; Turriff, F.B.

Coum rivale, Linn.-King Edward, S.A.; Turriff, S.A.

Fragaria vesca, Linn.-Gamrie, F.B.; King Edward, F.B.; Turriff, F.B.; Grange, S.A.

F. moschata, Duchesne-Alvah, Ed.; King Edward, F.B.

Potentilla sterilis, Garcke-Alvah, B.G.

- P. procumbers, Sibth.-Gamrie, F.B.; King Edward, F.B.; Turriff, F.B.
- P. palustris, Scop.-King Edward, F.B.; Turriff, F.B.

Alchemilla vulgaris, Linn., a. pratensis, Pohl-King Edward, F.B.; Turriff, F.B.

b. alpestris, Pohl-Turriff, F.B.

c. filicaulis, (Buser)-Kirkmichael, M.

- A. alpina, Linn.-Alvah, B.G.; King Edward, S.A.; Grange, N.F.; Keith, B.G.; Mortlach, B.G.
- A. arvensis, Scop.-Turriff, F.B.

Rosa pimpinellifolia, Linn.-Kirkmichael, M.

f. spinosissima, Linn.—Alvah, B.G.; Grange, S.A.; Mortlach, B.G.

- R. tomentosa, Sm.-Kirkmichael, M.; Grange, S.A.
- R. canina, Linn., agg.-Alvah, B.G.; Mortlach, B.G.
- R. glauca, Vill., e. subcristata, (Baker)-Kirkmichael, M.

Agrimonia Eupatoria, Linn.—Rathven, S.A.; Banff, S.A.; Gamrie, S.A.; Alvah, B.G.;
Turriff, F.B.; Inverkeithnie, B.G.

Pyrus Aria, Ehrh.—Gamrie, F.B.; King Edward, F.B.

b. rupicola, Syme-Kirkmichael, M.

SAXIFRAÇACEÆ.

Saxifraga aizoides, Linn.-Alvah, B.G.; King Edward, S.A.; Mortlach, B.G.

- S. granulata, Linn.-Rathven, B.G.
- S. hypnoides, Linn.-Turriff, F.B.

Chrysosplenium alternifolium, Linn.-Gamrie, S.A.; Turriff, F.B.

Parnassia palustris, Linn.-Mortlach, B.G.

Ribes Grossularia, Linn.-Gamrie, F.B.; King Edward, F.B.; Turriff, F.B.

R. alpinum, Linn.-Mortlach, B.G.

R. nigrum, Linn.-Alvah, F.B.; King Edward, F.B.

CRASSULACEÆ.

Sedum purpureum, Tausch-Kirkmichael, M.

S. villosum, Linn.-Alvah, B.G.; Turriff, S.A.; Mortlach, B.G.

DROSERACEÆ.

Drosera rotundifolia, Linn.-Gamrie, F.B.; King Edward, F.B.

D. anglica, Huds.-King Edward, F.B.; Mortlach, Ed.

× rotundifolia-King Edward, F.B.

HALORAGACEÆ.

Hippuris vulgaris, Linn.—Gamrie, S.A.; Turriff, F.B.; Cairnie, N.F.

Myriophyllum alterniflorum, DO.—King Edward, F.B.; Turriff, F.B.; Kirkmichael, M.
Callitriche verna, Linn., agg.—Turriff, F.B.

C. stagnalis, Scop.-King Edward, F.B.; Turriff, F.B.

C. intermedia, Hoffm.-Gamrie, F.B.; King Edward, F.B.; Turriff, F.B.

ONAGRACEÆ.

Epilobium hirsutum, Linn.-Turriff, F.B.

E. angustifolium, Linn.-Kirkmichael, B.G.

E. obscurum, Schreb.-King Edward, S.A.; Turriff, F.B.

E. parviflorum, Schreb.-Mortlach, B.G.

E. alsinefolium, Vill.-Kirkmichael, B.G.

E. anagallidifolium, Linn.-Aberlour, B.G.

E. hybrids-Kirkmichael, M.

Circaa alpina, Linn.-Rathven, S.A.; Turriff, S.A.; Mortlach, B.G.

UMBELLIFERÆ.

Hydrocotyle vulgaris, Linn.—Alvah, S.A.; King Edward, F.B.; Turriff, F.B. Sanicula europæa, Linn.—Gamrie, S.A.; Alvah, B.G.; Mortlach, B.G. Conium maculatum, Linn.—Grange, S.A.; Mortlach, B.G. Pimpinella Saxifraga, Linn.—Alvah, B.G. Chærophyllum temulum, Linn.—Alvah, B.G. Scandix Pecten-Veneris, Linn.—Alvah, B.G.; Mortlach, B.G. An.hriscus vulgaris, Bernh.—Bathven, Ed. Meum Athamanticum, Jacq.—Kirkmichael, M. Peucedanum sativum, Benth. & Hook. 1.—Gamrie, F.B. Caucalis Anthriscus, Huds.—Mortlach, B.G.

CAPRIFOLIACEÆ.

Adoxa Moschatellina, Linn.—Rathven, B.G.; Cullen, S.A.; Boyndie, Ed.; King Edward, S.A.; Mortlach, B.G.

Sambucus Ebulus, Linn.—Mortlach, B.G. Linnæa borealis, Linn.—Bellie, S.A.; Rathven, B.G.; King Edward, S.A.; Turriff, S.A; Grange, Ed.; Mortlach, B.G.

RUBIACEÆ.

Callum boreale, Linn.-Alvah, B.G.; Mortlach, B.G.

- C. Cruciata, Scop.—Keith, B.G.—Professor Trail has informed me that this is a wrong identification, the plant being a species of Asperula.
- C. Mollugo, Linn.-Gamrie, F.B.; Alvah, B.G.; Grange, Ed.

C. asperum, Schreb.-Gamrie, F.B.

C. palustre, Linn.-King Edward, F.B.; Turriff, F.B.

G. uliginosum, Linn.—Alvah, B.G.; Turriff, F.B.; Kirkmichael, M.; Grange, S.A. Asperula odorata, Linn.—Bellie, S.A.; Boyndie, Ed.; Gamrie, F.B.; Alvah, B.G.; Turriff, S.A.; Kirkmichael, M.; Mortlach, B.G.

Sherardia arvensis, Linn.-Turriff, F.B.; Grange, S.A.

VALERIANACEÆ.

Valeriana sambuelfolla, Mikan.-King Edward, F.B.

V. pyrenaica, Linn.—Gamrie, F.B.

Valorianella olitoria, Poll.—Alvah, B.G.; Keith, B.G. v. dentata, Poll.—Alvah, F.B.

COMPOSITÆ.

Eupatorium cannabinum, Linn.-Gamrie, S.A.

Solidago Virgaurea, Linn.-King Edward, S.A.

Erigeron acre, Linn.-Kirkmichael, M.

Filago germanica, Linn.—Gamrie, F.B.; Alvah, B.G.

F. minima, Fr.-King Edward, F.B.; Mortlach, B.G.

Antennaria dioica, Gaertn.-Mortlach, B.G.

Gnaphalium uliginosum, Linn.-Turriff, F.B.

G. sylvaticum, Linn.-Turriff, F.B.; Grange, S.A.; Mortlach, B.G.

Bidens cernua, Linn.—Alvah, B.G.

Achillea tomentosa, Linn.—Boharm, B.G.

Chrysanthemum segetum, Linn.-Turriff, F.B.; Grange, S.A.

C. Parthenium, Bernh.-Gamrie, F.B.; Turriff, F.B.

Matricaria inodora, Linn.-Turriff, F.B.

Tanacetum vulgare, Linn.-King Edward, F.B.; Turriff, F.B.; Mortlach, B.G.

Artemisia vulgaris, Linn.-King Edward, F.B.; Grange, S.A.

Petasites ovatus, Hill-Gamrie, F.B.; King Edward, F.B.

Doronicum plantagineum, Linn.-Banff, Ed.

Senecio sylvaticus, Linn.-Grange, S.A.; Turriff, F.B.

Arctium spp.—Alvah, B.G.; Grange, S.A.

Cnicus heterophyllus, Willd.-Mortlach, B.G.

Saussurea alpina, Linn,-Kirkmichael, M.

Centaurea Cyanus, Linn.-Alvah, B.G.; Grange, S.A.; Mortlach, B.G.

Cichorium Intybus, Linn.-Inverkeithnie, B.G.

Crepis mollis, Aschers.-Kirkmichael, M.

Hieracium Pilosella, Linn., c. nigrescens, Fr., d. concinnatum, F. J. Hanb.; H. anglicum, Fr. & b. acutifolium, Backh.; H. iricum, Fr.; H. holosericeum, Backh.; H. eximium, Backh., b. tenellum, Backh.; H. gracilentum, Backh.; H. petiolatum, Elfstrand; H. lingulatum, Backh.; H. chrysanthum, Backh.; H. nigrescens, Willd., c. gracilifolium, F. J. Hanb.; H. Schmidtii, Tausch, & c. crinigerum, Fr.; H. argenteum, Fr.; H. Sommerfeltii, Lindeb.; H. pseudonosmoides, Dahlst.; H. silvaticum, Gouan, f. prolixum, Dahlst.; H. variicolor, Dahlst.; H. serratifrons, Almq., b. Stenstroemii, Dahlst.; H. euprepes, F. J. Hanb., c. clivicolum, F. J. Hanb.; H. angustatum, Lindeb., b. elatum, Lindeb.; H. corymbosum, Fr.; H. auratum, Fr.—Kirkmichael, M.

H. aurantiacum, Linn.—Turriff, B.G. H. murorum, Linn.—Gamrie, F.B.

H. murorum, Linn.—Gamrie, F.B.
H. casium, Fr.—Banff, J. Roy (comm. Prof. Trail).

H. vulgatum, Fr.-Gamrie, F.B.; King Edward, F.B.; Turriff, F.B.

H. boreale, Fr.-Alvah, B.G.

Taraxacum palustre, DC.—Alvah, B.G.

Sonchus oleraceus, Linn.-Turriff, F.B.; Grange, S.A.

S. asper, Hill-Turriff, F.B.

S. arvensis, Linn.-Turriff, F.B.

CAMPANULACEÆ.

Campanula latifolia, Linn.-Rathven, S.A.; Oullen, B.G.; Turriff, S.A.

VACCINIACEÆ.

Vaccinium Vitis-Idma, Linn.—Rathven, S.A.; Cullen, B.G.; Banff, Ed.; Alvah, B.G.; Turriff, F.B.

Oxycoccus quadripetala, Gilib.—Rathven, S.A.

ERICACEÆ.

Erica Tetralix, Linn.-King Edward, F.B.

Azaiea procumbens, Linn.-Mortlach, B.G.

Pyrola media, Sw.-Alvah, B.G.; Turriff, S.A.; Mortlach, B.G.

P. rotundifolia, Linn.-Turriff, B.G.

P. minor, Linn.-Turriff, S.A.; Mortlach, B.G.

P. secunda, Linn.—Turriff, S.A.; Rothiemay, B.G.; Mortlach, B.G.; Alvah, Bruce (v. Introd.)

Moneses uniflora, A. Gray-Rothiemay, B.G.; Mortlach, B.G.

PRIMULAGEÆ.

Primula vulgaris, Huds.-King Edward, F.B.; Turriff, F.B.; Grange, S.A.

veris, Linn.—Gamrie, B.G.

P. elatior, Jacq.-Alvah, B.G.

Lysimachia nemorum, Linn.—Gamrie, F.B.; King Edward, F.B.; Turriff, S.A.; Grange, S.A. Trientalis europæa, Linn.—Cullen, B.G.; Gamrie, F.B.; Turriff, S.A. Anagallis arvensis, Linn.—Alvah, B.G.

A. tenella, Murr.-Alvah, B.G.; Mortlach, B.G.

APOCYNACEÆ.

Vinca minor, Linn.-King Edward, S.A.

GENTIANACEÆ.

Centiana Amarella, Linn.—Boyndie, Ed.

G. baltica, Murb.-Gamrie, F.B.

Menyanthes trifoliata, Linn.—Turriff, F.B.; Grange, S.A. Nymphoides peltatum, Bendle & Britten—Turriff, F.B.

BORAGINACEÆ.

Cynoglossum officinale, Linn.-Boyndie, B.G.

Symphytum peregrinum, Ledeb.-Gamrie, F.B.; Turriff, F.B.

Anchusa sempervirens, Linn.-Mortlach, B.G.

Borago officinalis, Linn.—Rathven, B.G.; Cullen, S.A.

Lycopsis arvensis, Linn.-Turriff, F.B.; Grange, S.A.

Mertensia maritima, Gray-Banff, S.A.

Myosotis cespitosa, Schultz-King Edward, F.B.; Turriff, F.B.

M. scorpioides, Linn.—Gamrie, F.B.; King Edward, F.B.; Turriff, F.B. b. strigulosa, (Reichb.)—Kirkmichael, M.

M. sylvatica, Hoffm.-Alvah, F.B.

M. collina, Hoffm.-Banff, B.G.; Gamrie, S.A.; Alvah, B.G.

M. versicolor, Sm.-King Edward, F.B.; Turriff, F.B.

Lithospermum arvense, Linn.-Alvah, B.G.; Mortlach, B.G.

Echium vulgare, Linn.-Alvah, B.G.; Mortlach, B.G.

SOLANACEÆ.

Solanum Dulcamara, Linn.-Gamrie, N.F.

S. nigrum, Linn.-Boyndie, Ed.

SCROPHULARIACEÆ.

Linaria vuigaris, Mill.—Rathven, Ed.; Gamrie, F.B.; Mortlach, B.G. Sarophularia nodosa, Linn.—Mortlach, B.G.

Mimulus guttatus, Linn.-Kirkmichael, M.

Veronica hederæfolia, Linn.-King Edward, F.B.; Grange, S.A.

V. didyma, Ten.-Turriff, F.B.

V. agrestis, Linn.-King Edward, F.B.; Turriff, F.B.

V. Tournefortii, C. Gmel.—Turriff, F.B. V. arvensis, Linn.—King Edward, F.B.

V. serpyllifolia, Linn., b. tenella, All.-Kirkmichael, M.

V. alpina, Linn,-Kirkmichael, M.

V. montana, Linn.-Bellie, N.F.; Gamrie, S.A.

V. scutellata, Linn.—Turriff, F.B.; Mortlach, B.G. b. hirsuta, Weber.—Alvah, B.G.

V. Anagallis-aquatica, Linn.-King Edward, B.G.

Euphrasia brevipila, Burnat & Gremli-Gamrie, F.B.; King Edward, F.B.; Turriff, F.B.

E. borealis, Towns.-Gamrie, F.B.; King Edward, F.B.

E. gracitis, Fr.-Gamrie, F.B.; King Edward, F.B.; Turriff, F.B.

E. scottica, Wettst.-Gamrie, F.B.

E. curta, Wettst.-Gamrie, F.B.

Pedicularis palustris, Linn.-King Edward, F.B.; Turriff, F.B.

P. sylvatica, Linn.-King Edward, F.B.; Turriff, F.B.

Rhinanthus major, Ehrh., c. apterus, Fr.—Kirkmichael, M. R. borealis, Druce—Kirkmichael, M.

Melampyrum pratense, Linn.-Alvah, B.G.; Turriff, S.A.

d. montanum, Johnst.-Kirkmichael, M.

e. hians, Druce-Kirkmichael, M.

LENTIBULARIACEÆ.

Utricularia minor, Linn.-Alvah, S.A.; Turriff, F.B.

U. intermedia, Hayne-Turriff, F.B.

Pinguicula vulgaris, Linn.-King Edward, F.B.; Turriff, F.B.

LABIATÆ.

Mentha alopecuroides, Hull-Kirkmichael, M.

M. piperita, Linn.-King Edward, F.B.; Turriff, F.B.

M. aquatica, Linn., a. hirsuta, (Huds.)—King Edward, F.B.; Turriff, F.B.; Kirk-michael, M.; Grange, S.A.

M. arvensis, Linn.-Turriff, F.B.

M. paludosa, Sole-King Edward, F.B.

Thymus Serpyllum, Linn.-Alvah, F.B.; Turriff, F.B.; Forglen, S.A.

Clinopodium vulgare, Linn.-Kirkmichael, M.

Nepeta hederacea, Trev.-Grange, S.A.

Scutellaria galericulata, Linn.-Mortlach, B.G.

Marrubium vulgare, Linn.-Rothiemay, Ed.

Stachys palustris, Linn.-Gamrie, F.B.; Turriff, F.B.

S. arvensis, Linn.-Alvah, B.G.; King Edward, F.B.; Mortlach, B.G.

Caleopsis speciosa, Mill.-Kirkmichael, M.; Mortlach, B.G.

Lamium amplexicaule, Linn.-Alvah, B.G.; King Edward, F.B.; Turriff, F.B.; Grange, S.A.

L. maculatum, Linn.—Rathven, S.A.; King Edward, F.B.; Turriff, F.B.

L. album, Linn.-King Edward, F.B.

Teucrium Scorodonia, Linn.-Gamrie, F.B.; Turriff, F.B.

Ajuga reptans, Linn.-King Edward, F.B.; Turriff, F B.

PLANTAGINACEÆ.

Plantago maritima, Linn.—Mortlach, B.G. Littorella uniflora, Ashcers.—Alyah, B.G.

ILLECEBRACEÆ.

Scleranthus annuus, Linn.-Avah, B.G.; Turriff, F.B.; Grange, S.A.; Mortlach, B.G.

CHENOPODIACEÆ.

Chenopodium album, Linn.-Turriff, F.B.

C. Bonus-Henricus, Linn.—Gamrie, F.B.; Alvah, B.G.; Turriff, F.B.; Inverkeithnie, B.G.;

Mortlach, B.G.

Atriplex patula, Linn.-Turriff, F.B.

b. erecta (Huds.)-Gamrie, F.B.; King Edward, F.B.

Salsola Kali, Linn.-Oullen, S.A.

POLYCONACEÆ.

Polygonum Hydropiper, Linn.-Gamrie, F.B.

- P. lapathifolium, Linn.-Gamrie, F.B.; Alvah, F.B.; King Edward, F.B.; Turriff, F.B.
- P. amphibium, Linn.—Gamrie, F.B.; Alvah, F.B.; King Edward, F.B.; Grange, S.A.; Mortlach, B.G.
- P. Bistorta, Linn.-Boyndie, Ed.; Kirkmichael, M.
- P. viviparum, Linn.—Banff, S.A.; Alvah, B.G.; Turriff, S.A.; Mortlach, B.G.

Oxyria digyna, Hill-Mortlach, B.G.

Rumex sanguineus, Linn., b. viridis, (Sibth.)-Gamrie, S.A.

- R. Hydrolapathum, Huds.-Gamrie, S.A.
- R. alpinus, Linn.-Turriff, F.B.
- R. crispus, Linn. x obtusifolius-Alvah, F.B.; King Edward, F.B.; Turriff, F.B.
- R. domesticus, Hartm. × obtusifolius—Gamrie, F.B.; Alvah, F.B.; King Edward, F.B.; Turriff, F.B.

EUPHORBIACEÆ.

Euphorbia Helioscopia, Linn.-Turriff, F.B.

E. oxigua, Linn.-Boyndie, B.G.

Morcurialis perennis Linn.-Grange, S.A.

URTICACEÆ.

Humulus Lupulus, Linn.-Turriff, F.B.

Urtica dioica, Linn., b. angustifolia, Wimm. & Grab.-Alvah, F.B.

U. urens, Linn.-Turriff, F.B.; Grange, S.A.

Cannabis sativa, Linn.-Banff, Ed.

MYRICACEÆ.

Myrica Cale, Linn.-Alvah, B.G.; Marnoch, B.G.

CUPULIFERÆ.

Betula alba, Linn.-Gamrie, F.B.; King Edward, F.B.

- B. tomentosa, Reith & Abel-Gamrie, F.B.
- B. nana, Linn.-Kirkmichael, B.G.

Alnus rotundifolia, Mill.-Gamrie, F.B.

Corvius Aveilana, Linn.-Gamrie, F.B.; King Edward, F.B.; Turriff, F.B.; Grange, S.A.

Quercus Robur, Linn.—Rathven, S.A.; Deskford, S.A.; Grange, S.A. a. pedunculata, (Ehrh.)—Turriff, F.B. Castanea sativa, Mill.—Alvah, F.B.; Turriff, F.B.

SALICACEÆ.

Salix pentandra, Linn.-Alvah, B.G.

- S. fragilis, Linn.-King Edward, F.B.; Turriff, F.B.
- S. alba, Linn.-King Edward, F.B.; Turriff, F.B.
- S. purpurea, Linn.-Alvah, F.B.; King Edward, F.B.
- S. viminalis, Linn.-Alvah, F.B.; King Edward, F.B.; Turriff, F.B.
- S. caprea, Linn.—Gamrie, F.B.; Turriff, F.B. xphylicifolia, Sm.—Kirkmichael, M.
- aurita, Linn.—Gamrie, F.B.; Alvah, B.G.; King Edward, F.B.; Turriff, F.B.
 phylicifolia, Sm.—Kirkmichael, M.
- S. cinerea, Linn.-Turriff, F.B.
- S. repens, Linn.—Turriff, F.B.
 Populus tremula, Linn.—King Edward, F.B. (?)
 - P. nigra, Linn.-Turriff, F.B.

EMPETRACEÆ.

Empetrum nigrum, Linn,-King Edward, F.B.; Turriff, F.B.

CONIFERÆ.

Juniperus communis, Linn.—Cullen, B.G.; Alvah, B.G. Larix europæa, DC.—Bellie, S.A.; Boyndie, S.A.

HYDROCHARIDACEÆ.

Elodea canadensis, Michx.-King Edward, F.B.

ORCHIDACEÆ.

Listera cordata, Br.-Turriff, S.A.; Mortlach, B.G.

L. ovata, Br.-Boharm, Ed.

Goodyera repens, Br.—Turriff, S.A.; Mortlach, B.G. Helleborine atrorubens, Druce—Kirkmichael, M.

Orchis mascula, Linn.—Alvah, B.G.

- O. latifolia, Linn.-Turriff, Skene; Kirkmichael, M.
- maculata, Linn.—King Edward, F.B.
 kifolia—Kirkmichael, M.

Habenaria conopsea, Benth.-Turriff, S.A.

- H. albida, Br.-Alvah, B.G.
- H. viridis, Br.-Alvah, B.G.; Mortlach, B.G.

IRIDACEÆ.

Iris Pseudacorus, Linn.-Oullen, S.A.; King Edward, F.B.; Turriff, F.B.

AMARYLLIDACEÆ.

Narcissus Pseudo-Narcissus, Linn.—Boyndie, Ed.

LILIACEÆ.

Allium oleraceum, Linn.-Kirkmichael, M. Scilla verna, Huds.-Rathven, S.A.

S. non-scripta, Hoffmgg. & Link.—Rathven, S.A.; Boyndie, Ed.; King Edward, S.A. Ornithogalum umbellatum, Linn.—Banff, Ed.

Narthecium ossifragum, Huds.-King Edward, F.B.; Turriff, F.B.

Tofieldia palustris, Huds.-Kirkmichael, M.

JUNGACEÆ.

Juneus squarrosus, Linn.-King Edward, F.B.

- J. maritimus, Linn.-Rathven, Ed.; Boyndie, Ed.
- J. bulbosus, Linh.-Alvah, F.B.; King Edward, F.B.; Turriff, F.B.
- J. articulatus, Linn.-King Edward, F.B.
- J. sylvaticus, Reich.-Turriff, F.B.
- J. biglumis, Linn.-Kirkmichael, B.G.
- J, triglumis, Linn.-Kirkmichael, M.

Luzula pilosa, Willd.—Gamrie, F.B.; King Edward, F.B.; Turriff, F.B.

- L. spicata, DO.-Mortlach, B.G.
- L. campestris, DC.—Gamrie, F.B.; Alvah, F.B.; King Edward, F.B.; Turriff F B; Grange, S.A.
- L. multiflora, DO., a. umbellata—King Edward, F.B.; Turriff, F.B. b. congesta—Turriff, F.B.

TYPHACE E.

Typha latifolia, Linn.-Turriff, F.B.

Sparganium erectum, Linn.-Gamrie, F.B.

- S. simplex, Huds.—Alvah, B.G.
- S. affine, Schnizl.-Alvah, B.G.
- S. minimum, Fr.-Turriff, F.B.

ARACEÆ.

Arum maculatum, Linn.-Rathven, Ed.

LEMNACEÆ.

Lemna minor, Linn.-Alvah, B.G.

L. trisulca, Linn.-Mortlach, B.G.

ALISMACEÆ.

Alisma Plantago-aquatica, Linn.-Alvah, B.G.; King Edward, S.A.; Mortlach, B.G.

NAIADACEÆ.

Triglochin palustre, Linn.-Turriff, F.B.

Potamogeton natans, Linn.-Gamrie, F.B.; Alvah, F.B.; Turriff, F.B.

- P. polygonifolius, Pourr.-Turriff, F.B.
- P. alpinus, Balb .- Alvah, B.G.; Turriff, S.A.; Kirkmichael, M.
- P. lanceolatus, Sm.-Alvah, B.G.; Mortlach, B.G.
- P. lucens, Linn.-Alvah, B.G.; Turriff, S.A.
- P. perfoliatus, Sm.-King Edward, B.G.; Mortlach, B.G.
- P. crispus, Linn.-Turriff, S.A.
- P. pusillus, Linn.-Alvah, B.G.

Ruppia rostellata, Koch-Banff, Ed., ex B.G.

CYPERACEÆ.

Eleocharis palustris, Roem. & Schult.—King Edward, F.B. Scirpus cæspitosus, Linn.—Gamrie, F.B.; King Edward, F.B.; Turriff, F.B.

- S. setaceus, Linn.-Alvah, B.G.; Mortlach, B.G.
- S. Tabernaemontani, Gmel.-Bellie, Ed.; Rathven, Ed.
- S. sylvaticus, Linn.-Alvah, B.G.
- S. rufus, Schrad.-Banff, B.G.

Eriophorum vaginatum, Linn.-King Edward, F.B.

E. angustifolium, Roth.-King Edward, F.B.; Turriff, F.B.

Rynchospora alba, Vahl-King Edward, B.G.; Mortlach, B.G.

Scheenus nigricans, Linn.—Mortlach, B.G. Carex dioica, Linn.—Alvah, B.G.

- C. incurva, Lightf.—Banff. Bruce (v. Introd.)
 - C. pulicaris, Linn.-Alvah, B.G.; King Edward, F.B.; Turriff, F.B.
 - C. pauciflora, Lightf.-Kirkmichael, M.
 - C. Boenninghausiana, Weihe-Bellie, B.G.
 - C. echinata, Murr.-King Edward, F.B.; Turriff, F.B.
 - c. curta, Good.—King Edward, F.B.b. alpicola, Wahl.—Alyah, B.G.
 - C. leporina, Linn.—Turriff, F.B.
 - C. atrata, Linn.-Kirkmichael, M.
 - C. rigida, Good.—Mortlach, B.G.
 - C. aquatilis, Wahl.-Turriff, F.B.
 - C. Coodenowii, Gay-King Edward, F.B.; Turriff, F.B.
 - C. flacca, Schreb.-King Edward, F.B.; Turriff, F.B.
 - C. rariflora, Smith-Kirkmichael, B.G.
 - C. caryophyllea, Latourr.-Turriff, S.A.; Kirkmichael, M.
 - C. pallescens, Linn.-Kirkmichael, M.
 - C. panicea, Linn.-King Edward, F.B.; Turriff, F.B.
 - C. capillaris, Linn.-Kirkmichael, M.
 - C. pendula, Huds.-Gamrie, B.G.: Turriff, S.A.
 - C. sylvatica, Huds.-Kirkmichael, M.
 - C. binervis, Sm.-Gamrie, F.B.; King Edward, F.B.
 - C. fulva, Host-Gamrie, F.B.; King Edward, F.B.; Kirkmichael, M.
 - C. extensa, Good.—Gamrie, B.G.
 - C. flava, Linn.—King Edward, F.B.; Turriff, F.B.
 b. lepidocarpa, (Tausch.)—Kirkmichael. M.
 - x fulva-Kirkmichael, M.
 - C. Oederi, Retz., d. œdocarpa, And.-Kirkmichael, M.
 - C. xanthocarpa-Gamrie.
 - C. hirta, Linn.-Gamrie, S.A.
 - C. acutiformis, Ehrh.-Mortlach, B.G.
 - C. inflata, Huds.—Gamrie, F.B.; King Edward, F.B.; Turriff, F.B.

GRAMINE E.

Phalaris arundinacea, Linn.-Kirkmichael, M.

Milium effusum, Linn.-Fordyce, Ed.

Phleum pratense, Linn., b. nodosum, (Linn.)—Gamrie, F.B.; Alvah, F.B.; King Edward, F.B.; Turriff, F.B.

P. arenarium, Linn.-Banff, N.F.

Agrostis canina, Linn.—Gamrie, F.B.; King Edward, F.B.; Turriff, F.B.

A. alba, Linn.-Turriff, F.B.

b. stolonifera, (Linn.)—Gamrie, F.B.; King Edward, F.B.; Turriff, F.B. d. coarctata, Hoffm.—Kirkmichael, M.

A. pumila, Linn.-King Edward, F.B.; Turriff, F.B.; Cabrach, B.G.

Deschampsia alpina, Roem. & Schult.-Kirkmichael, M.

Holcus mollis, Linn.-Alvah, F.B.; Turriff, F.B.

Avena pubescens, Huds.-Mortlach, B.G.

A. pratensis, Linn.-Cullen, N.F.; Mortlach, B.G.

b. alpina, Smith-Kirkmichael, B.G.

c. longifolia, Parn.-Kirkmichael, M.

A. strigosa, Schreb.—Gamrie, F.B.; King Edward, F.B.

A. fatua, Linn.-Grange, S.A.

Sieglingia decumbens, Bernh.-King Edward, F.B.; Turriff, F.B.

Phragmites communis, Trin.-Alvah, B.G.

Koeleria gracilis, Pers.-Alvah, B.G.; Grange, S.A.; Mortlach, B.G.

c. britannica, Domin-Kirkmichael, M.

Molinia corulea, Moench.-Alvah, B.G.; Turriff, F.B.

Melica nutans, Linn.-Kirkmichael, M.; Keith, B.G.

Briza media, Linn.-Alvah, B.G.

Poa alpina, Linn.-Kirkmichael, M.

P. nemoralis, Linn,-Turriff, F.B.

d. divaricata, Syme-Kirkmichael, M.

P. pratensis, Linn.-King Edward, F.B.

P. trivialis, Linn.-Turriff, F.B.

Clyceria aquatica, Wahlb .- Alvah, F.B.; King Edward, F.B.; Turriff, F.B.

G. declinata, Bréb.—Kirkmichael, M. Festuca bromoides, Linn.—Turriff, F.B.

F. ovina, Linn.-King Edward, F.B.

F. rubra, Linn.-Alvah, F.B.; King Edward, F.B.

F. sylvatica, Vill.—Keith, N.F.

F. pratensis, Huds.-Alvah, F.B.

F. elatior, Linn.—Gamrie, F.B.; Alvah, B.G.; Turriff, F.B.; Mortlach, B.G. Bromus giganteus, Linn.—Boyndie, B.G.; Gamrie, F.B.; Alvah, F.B.; Keith, N.F.

B. ramosus, Huds.-Gamrie, F.B.; Alvah, S.A.

B. sterilis, Linn.—Banff, N.F.; Alvah, B.G.; Mortlach, B.G.

B. secalinus, Linn.-Mortlach, Ed.

B. commutatus, Schrad.—Gamrie, F.B.; Alvah, F.B.; King Edward, F.B.; Turriff, F.B.

B. hordeaceus, Linn.-King Edward, F.B.; Turriff, F.B.

Brachypodium sylvaticum, Roem. & Schult.—Alvah, B.G.; King Edward, F.B.; Keith, N.F. Agropyron caninum, Beauv.—Turriff, F.B.; Kirkmichael, M.

A. repens, Beauv., b. Leerslanum, Gray-Gamrie, F.B.; King Edward, F.B.; Turriff, F.B.

Nardus stricta, Linn.-King Edward, F.B.; Turriff, F.B.

FILICES.

Asplenium Adiantum-nigrum, Linn.-Banff, Ed.; Alvah, B.G.; Mortlach, B.G.

A. Trichomanes, Linn.-Gamrie, F.B.; Mortlach, B.G.

A. Ruta-muraria, Linn.-Banff.

Athyrium Filix-fæmina, Roth-King Edward, F.B.

Phyllitis Scolopendrium, Newm .- Gamrie, S.A.; Turriff, B.G.

Cystopteris fragilis, Bernh.-Gamrie, B.G.; Alvah, B.G.; Turriff, S.A.; Mortlach, B.G.

b. dentata, Hook.-Kirkmichael, M.; Mortlach, B.G.

Polystichum lobatum, Presl.-Gamrie, F.B.; Turriff, B.G.

Lastrea spinulosa, Presl.-Kirkmichael, M. Polypodium vulgare, Linn.-Turriff, F.B.

Phegopteris Dryopteris, Fée-Gamrie, F.B.; Turriff, S.A.

P. polypodioides, Fée—Gamrie, F.B.; Alvah, B.G.; King Edward, B.G. Ophioglossum vulgatum, Linn.—Gamrie (Flora of Buchan, by Mr R. Walker). Botrychium Lunaria, Sw.—Fordyce, Ed.; Mortlach, B.G.

EQUISETACEÆ.

Equisetum sylvaticum, Linn.-Turriff, F.B.

E. palustre, Linn.-Alvah, F.B.; Turriff, F.B.

E. limosum, Linn,-Turriff, F.B.

LYCOPODIACEÆ.

Lycopodium annotinum, Linn.-Fordyce, Ed.; Kirkmichael, M.; Aberlour, B.G.

L. clavatum, Linn.-Gamrie, F.B.

L. alpinum, Linn.—Alvah, B.G.

b. decipiens, Syme-Kirkmichael, M.

CHARACEÆ.

Nitella opaca, Agardh-Kirkmichael, M.

			Bellie.	Rathven.	Cullen.	Fordyce.	Boyndie.	Banff.	Gamrie.	Alvah.	King-Edward.	Turriff.	Forglen.
RANUNCULACEAE.													
Thalictrum dunense, Dum		1		0	0	i	1		î	1			
Anemone nemorosa, Linn	•••	2	1		1	*	1	1	1	1	0	0	1
A. apennina, Linn	•••	3		0									
Ranunculus aquatilis, Linn	•••	4	1			*	1	t	1	1	0	0	*
R. fluitans, Linn		5						1		1	0	1	1
R. Lenormandi, F. Sch	***	6								0?			
R. hederaceus, Linn	•••	7	1	ţ		*	1	1	1	1	1	0	*
R. sceleratus, Linn	• • •	8								0			
R. Flammula, Linn	***	9	I	1	1	1	1	1	1	1	1	0	1
b. radicans, Nolte		10				x	x		0	x	0	0	
R. ecoticus, E. S. Marshall	.,.	11											
R. auricomus, Linn		12						1					
R. acris, Linn		13	ī	1	1	1	1	1	1	1	1	1	1
b. Friesianus, Rouy & Fouc.		14										0	
c. Boræanus, (Jord.)		15				x	1	1		1	}	0	x
f. tomophyllus, (Jord.)		16		i	x	1	1	1	1	1	1	0	X
e. rectus, (Jord.)		17								1	1	x	
R. repens, Linn		18	ī	1	1	1	1	1	1	1	1	1	!
R. bulbosus, Linn	***	19		0		*	1	1	i	0		0	*
R. sardous, Crantz	•••	20											
R. Ficaria, Linn		21				*	i	1	1	i	0	0	44
Caltha palustris, Linn	•••	22	1	1	1	1	1	1	1	1	1	1	1
c. minor, Syme	•••	23											
C. radicans, Forster		24								1			

Kotniemay.	Cairnie.	Cabrach.	Kirkmichael.	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiquhill.	Grange.	Keith.	Botriphnie.	Mortlach.	
!	x	*	x	x	1	*	1	1	İ	1	1	x	x	Local on sand dunes along coast
1	х							!			*			Common in R. Deveron.
1	x	*		*	*	*	x	1	*	ī	*	x	x	Common in ditches and shallow water.
!	x	*	x	x	*	*	1	1	1	1	x	x	x	Common.
			x 0	х	x						x	x	x	
														Appears to be very rare.
1	x	*		*	1	*	1	1	1	i	1	x	x	Common.
1	x	x	x	x				1	x	x	x	x	x	
X	x	x	x	x				1	x	×	x	x	x	1
	x								1			A		
1	x	*	x	x	1	*	i	1	1	1	1	x		Common.
*		*	x		*	*			1				0.	On sandy coasts and dry inland banks.
	1					*	1		*		*			Common.
î	x	*	x	x	1	*	1	1	1	1	1	x	x	Common.
		# ?	x											
	x	1	0							х	x	x	х	

			1	Bellie.	Rathven,	Cullen.	Fordyce.	Boyndie.	Banff.	Gamrie.	Alvab.	King-Edward	Turriff.	Forglen.	Marnoch.
RANUNCULACEAE—Contá.															
Trollius europæus, Linn.			1			1	-			1	0	1			
Eranthis hyemalis, Linn.			2				i		1	-	1				
Aquilegia vulgaris, Linn.			3	-		x			1	1	1				
Aconitum Napellus, Linn.			4			1	*		1		1 !	1	1	1.1	1
BERBERIDACEAE.						1									
Berberis vulgaris, Linn.			5	- Contraction		1		1	1] 1	1	0		1	
NYMPHAEACEAE.						1					1				
Nymphæa lutea, Linn			6	-		I				1	*	1	x		
Castalia alba, Wood		,	7								*		x	1	
PAPAVERACEAE															
Paparer somniferum, Linn.			8				1	1							
P. Rhœas, Linn.			9				*	*	1	1	0				
P. dubium, Linn			10	1 1	11	×	1	1 1	1	1	1	-	1		
Meconopsis cambrica, Vig.			11	[1	1	1	1	1 1						
Chelidonium majus Linn.			12	1	-	x				1					
TUMARIACEAE.			K												
Corydalie claviculata, DC.			13	1	1	1 1	1	1	1	1		1	1		
Fumaria capreolata, Linn.			14	1	1	I			1	1	1	1	0		1
F. Bastardi, Bor			15						-	0	1	0	0		
F. officinalis, Linn	***		16		1	1	1	1	,	1	1	1	0		
CRUCIFERAE.												The same of			
Cheiranthus Cheiri, Linn.			17	1	1	x			1						
Nasturtium officinale, R. Br.	•••		18	1	1	1	1	1	1	1	ı	1	1	1	
				harry Printers Deve		i	protein protei			the state of the s	-		The state of the s		-

Cairnie,	Cabrach.	Kirkmichael.	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiquhill.	Grange.	Keith.	Botriphnie.	Mortlach,	Charles and the second	
x	**			**	*	1		ž		*		x		Well established in Duff House Policies. A garden escape. A garden escape. Often planted in hedges.
	*		*	11-	#				0	x x		x 0		Planted? Planted? Casual. Colonist. Colonist. Often planted.
	dry		*	* * * .	* X	x	1	*	0	*		0		Colonist. Colonist.
x	*		*	÷	*	1	1	1	1	1	x	x		On old walls. Locally common.

			Bellie	Rathven.	Cullen.	Fordyce.	Boyndie.	Banff.	Gamrie.	Alvah.	King-Edward	Turriff.	Forglen.	Marnooh
RUCIFERAE - Conta.		П			П									
Barbarea vulgaris, Ait	•••	1	1	-	x	*	1	1		[1	0	x	1	
Arabis petræa, Lam	•••	2												
b. hispida, DC	***	3												
A. alpina, Linn	***	4		1			1	Ī	*					
A. hirsuta, Scop		5			x	1			*	1				
Cardamine amara, Linn		6				!	1	1	1	1	1	0	*	
C. lilacina, F. B. White	***	7			х									
C. pratensis, Linn		8	!	1	1	*	r	1	1	1	1	0	1	
b. dentata, (Schultes)	***	9												
C. hirsuta, Linn	•••	10	1			*	*	1		1		0	*	
C. flexuosa, With	***	11	1			1	1	1	1	1	0	0	1	
Malcolmia africana, R. Br	400	12												
M. maritima, R. Br	***	13												
Draba incana, Linn	400	14					0							
D. rupestris, Br	0.00	15								1		1		
Erophila verna, E. Meyer		16		1		*	1	!	!		1	0		
Cochlearia officinalis, Linn		17	1	1	1	1	1	ı	1					
C. alpina, Wata	200	18												
C. danica, Linn	***	19					?		?					
Hesperis matronalis, Linn	500	20						1			1			
Sisymbrium Thalianum, Gay		21		1				0	1	0	0			
S. officinale, Scop		22	1				1	1	1		1	1		
S. Alliaria, Scop		23							1	1			4	
S. Alitaria, Doub.	060	23							1	1				

Cairnie	Cabrach.	Kirkmichael.	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiquh'II.	Grange.	Keith.	Botriphnie.	Mortlach.	
	*	*		1		18		:		1		x	Apparently rather local.
				*	*								Escape. Not common.
				*				*	1	*		0	Locally abundant.
x	*	x 0	x	*	*	- 1	1	1	!	1	ж	x	Common.
x	* dry	x	* x	*	*	1	1	1	0	1	x	x x	Common but apparently often confused.
				x								x	Casual.
i	46	0		1	*			*	0				Locally common on dry, sandy places.
	dry	0											
x	*		*	*						*			Escape. Apparently rare.
	r		*	*	*	1	1	*	0			x	Denizen?
					*		1					0	Denizen?

		Bellie.	Rathven.	Cullen.	Fordyce.	Boyndie.	Banff.	Gamrie.	Alvah.	King-Edward	Turriff.	Forglen.	Marnoch.
DRUCIFERAE—Conid.						2 may 10 10 M		and the state of t				-	
B. Napus, Linn. B. Rutabaga, DC. B. Rapa, Linn.	1 2 3 4	Military and the Control of the Cont				1	1		Communication of the communica	Commence of the control of the contr	Question of the contraction of t	+	
B. campestris, Linn B. arvensis, O. Kuntze B. alba, Boiss	6 7	t	1	1	1	1	1	1 0	t	1	a a a a a a a a a a a a a a a a a a a	1	
Capsella Bursa-pastoris, Medic Coronopus procumbens, Gilib Lepidum sativum, Linn L. heterophyllum, Benth	8 9 10	I vergen	1 0	1	1	*	0	0	t	1	1	1	
b. canescens, Gren. & Godr L. campestre, Br	12 13 14		0		٠	1 4	1	1	1	x	-		ŀ
Thlaspi arvense, Linn Iberis amara, Linn Lunaria biennis, Moench Teesdalia nudicaulis, Br	15 16 17	1		0		S. S		J					
Cakile maritima, Scop	18 19 20	1	I I	1	1	1 1	0 1	1 1 1	t	1	1	1	
Resedacean. Reseda lutea, Linn	21					100						•	
R. Luteola. Linn	22	1	0	0	t	*		1	*				

Cairnie. Cabrach. Kirkmichael Inveravon. Aberlour. Knockando. Boharm. Deskford. Ordiguhill. Grange. Keith. Botriphnie.	
x * x x ! * ! ! * ! x x x	Frequent as casuals in fields and on roadsides Colonist? An escape. Common everywhere. Native? Rare. Denizen? Local, on dry ground. Local, colonist. Escape. On sandy coasts, rare. Colonist. Referred doubtfully to R. marstimus—may be only a form of preceding species. Denizen?

		Bellie.	Rathven.	Cullen.	Fordyce.	Boyndie.	Banff.	Gamrie.	Alvah.	King-Edward.	Turriff.	Forglen.	Marnoch.	Inverkeithnie.
LISTACEAE.											ī	I		
Helianthemum Chamæcistus, Mill	1		0	1	1	1 1		1	0	I	0			
VIOLACEAE.		1				ī								
Viola palustris, Linn	2	1	1		1	1		!	1	0	0	!		×
V. Riviniana, Reichb	3	!	1	1	1	1	1	ŧ	1	!	1	1		x
V. canina, Linn	4													
V. tricolor, Linn	5	1	1	1	1	1	1	1	1	0	1	1	1	х
V. arvensis, Murr	6	1	1	1	1	1	1	1	1	1	0	- (1	1	x
V. lutea, Huds	7													
f. amoena, (Symons)	8													
V. Cornuta, Linn	9						*		1		0	*	*	
OLYGALACEAE.														
Polygala vulgaris, Linn., aggr	10	1	11	1	1	1	1	1	1	1	х	*		
P. vulgaris, Linn., segr	11		1	!	1	1		!	1	1				
P. serpyllacea, Weihe	12	1	1	1	1	1	!	1	1	0	1	1.	1	x
P. oxyptera, Reichb	13													
ARTOPHYLLACEAE.														
Saponaria officinalis, Linn	14						1							
S. Vaccaria, Linn	15													
Silene latifolia, Rendle & Britten	16		1	1					!					
S. maritima, With	17	1	1	1	1	1	1	!						
S. anglica, Linn	18		0											
S. noctifora, Linn	19						1							
S. acaulis, Linn	20													
S. dichotoma, Ehrh	21													

		٠	Speciel er	q	.m 1 2511 w	o - e	ç	7 - 57 - 61 - 12 - 17	t a comme	- rest	(=7 <.	(manufacture)		2 = 2°4 = 44°5 =	there go to with find the track of the most of the white the section and the part of the section.
	Rothiemay.	Cairnie.	Cabrach.	Kirkmichael	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiquhill.	Grange.	Keith.	Botriphnie.	Mortlach.	
1		*	dry	x	*		*					x		0	Local.
2	1	x	*	x	x	*		1	1	1	1	1	x	x	{ Locally common on marshy ground.
3	1	x	dry	x	x	1	*	1	1	1	1	1	x	x	Common.
4			4	x		*	x								
5	!	x	*	x	x	1	*	1	1	1	1	1	ж	x	Denizen?
6	!	x	*	x	x	.1	х	1	1	1	1	x	x	x	Denizen?
7			dry	0	1									*	- Contract of the Contract of
8			dry	0											
9	!		*		,	x				*					Denizen.
10	:			1		*	*	x		1	1				Not as someon as D somellane
11				0		3		1	1	1	1	!		X .	Not so common as P. serpyllacea.
12	1	x	dry	x	x	1		!	1		!	1	x		Common.
13		-		x	x	*				•			Α.		Common.
14				1								*		1	Planted in Duff House Policies.
15						x									Casual.
16				x		*	*							0	Apparently rather scarce.
17			*			1	*	1							
18						x								1	
19						1								1	Escape.
20				x		*									
21				0											
			-	1								-		3	
			-												
-	0		1	To prove the	e sames	-	ALTERNATION OF	or marks t	W. 152	OTTO SHEET MADE O	-	-	-		

			Bellie.	Rathven.	Cullen.	Fordyee.	Boyndie.	Banff.	Gamrie.	Alvah	King Edward	Turriff.	Forglen.	Marnoch.	Inverkeit? nie
CARYOPHYLLACEAE—Contd.															
Lychnis alba, Milh		1	1	1	1	1	1	1	1	1			1		
L. dioica, Linn	***	2	1	1	1	1	1	1	1	1	1	1	1	1	
L. Flos-cuculi, Linn	***	3	1	1		!	1	- 1	1	1	1	1	1	1	
L. Githago, Scop		4	1	1			1	1	0	*	1	0	*	*	
Cerastium tetrandrum, Curt		5				x	1	1							
C. semidecandrum, Linn		6		1	1	x	1	1	1	0					
C. viecosum, Linn		7	1	1	1	1	1	1	. 1	1	1	1	1	1	
b. apetalum, (Dum.)		8								0	0	0		×	
C. vulgatum, Linn		9	1	1	1.		1	1	1	1	1	1	1	1	
C. alpinum, Linn	***	10													
b. pubescens, Syme	***	11													
C. arvense, Linn	***	12	x	1	*					1		0			
C. cerastoides, Britton	400	13											3		
Stellaria nemorum, Linn	***	14								0		0	1		
8. media, Vill	***	15	!	1	1	1	1	3	1	1	1	1	1	1	
S. neglecta, Weihe	***	16						9							
S. Holostea, Linn		17	1	1	1		î	1	1	1	0	ı	t	:	
S. graminea, Linn,	•••	18	1	1	1	1	1	1	1	1	1	1	. 1	1	
S. uliginosa, Murr		19	1	1	1	1	1	1	1	1	0	0	:	1	
Arenaria verna, Linn	***	20													
A. trinervia, Linn	400	21	!		j					0					
A. serpyllifolia, Linn	000	22	i	1		1	1		1						
A. leptoclados, Guss		23													
		24				,	1	, 1	1				1		

7.043	Rothiemay.	Cairnie.	Cabrach.	Kirkmichael.	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiquhill.	Grange.	Keith.	Botriphnie.	Mortlach.		
Ц	H	0	0	124	T	4	14	-				-	-	PFI		
1					*	1	*	1	1			*	x	0		Not so frequent as succeeding.
2	1	x	*	x	x	1	*	1	1		1	!!	x l	x		Common.
3	1	x	*	x	*	!	*	1	1	1	1	1]	x	x		Common on marshy ground.
4	dry					*	*		1	*	0	x				Colonist.
5											0					Local, on sandy coasts.
6																Local, on sandy coasts.
7	1	x		x	x	1	*	1	1	İ	1	x	x	х		
8		x														
9	1	x	*	x	x	1	*	1	1	1	1	1	x	x		
10			dry			*										
11				0												
12					*	*	*		1					0		Rare.
13				0				and the same								
14	dry					*		x								
15	1	x	*	x	x	1	*	1	1	1	İ	1	x	x		Everywhere common.
16								The same of the		?						
17	х	x	*	•	x	1	*	1	1	1		1	x	х	1	Common.
18	1		*	x	х.	1	*	1	1-	1	1	1	x	x		Common.
19	1	*	*	x	x	1	*	1	1 .	1	1	1	x	x		Common.
20			dry													
21			*		x	1			1			1				Rare.
2 2	dry		-			X		x								Local.
23			,	0												
24			-												1	Coasts.

		Bellie.	Rathven.	Cullen.	Fordyce.	Boyndie.	Banff	Gamrie.	Alvah.	King-Edward.	Turriff.	Forglen.	Marnoch.	Inverkeithnic.
CARTOPHYLLACEAE—Contd.														
Sagina maritima, Don		1 !	1	x	1	1	1	1						
S. ciliata, Fr		2				1	x	0						
S. procumbens, Linn		3 !	1	1	1	1	1	1	1	1	1	1	Ę	X
S. saginoides, Dalla Torre		4												
S. subulata, Presl		5					1							
S. nodosa, Fenzl		B 1	1		!	! !	1		0					
Spergula arvensis, Linn		7					1							
S. sativa, Boenn		3 1	1	1	!	1	1	1	1	į	1	!	1	x
Spergularia rubra, Pers	9	9 !	13	*			1	1	ı	t		*		
S. salina, Presl	10		0			1			1					
b. media	11	1	x		X.	1		1						
c. neglecta, (Syme)	12	3		x	1	1	1	1						
PORTULACACEAE.														
Claytonia sibirica, Linn	13	3											dry	
C. perfoliata, Donn	14													
Montia fontana, Linn	16	1			i		1	1	1	. 1	0	*	*	
HYPERICACEAE.														
Hypericum perforatum, Linn	16				4		1	x	0			x		
H. maculatum, Crantz	17													
H. puadratum, Stokes	18				1	1	1	1	0		0			x
H. humifusum, Linn	19		1		!		1	0	1			*	*	
H. pulchrum, Linn	20	1	1	t	!	1	i	1	1	1	1	1	1	x
H. hirstum, Linn	21						1		1		1	1	1	
		1												

Rothiemay.	Cairnie.	Cabrach.	Kirkmichael.	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiqubill.	Grange.	Keith.	Botriphnie.	Mortlach.	
1	*	*	x 0	x	1	*	1	1.	1.	1	ŧ.	x	ж	Coasts. Coasts, rare. Everywhere common.
1	x	dry	0 x	x	0 x	x *		1		:	x !	x	0 x	Rare. Local on wet links and moors. Rare, Colonist. Common, Colonist.
					x	х	х			0				
	x	*	x	*	*	*	dan a		:		x	x	x	Alien.
	x	*			*	*				0	ı			Local, rare. Not common.
x l dry	*	* dry	x	x	ī	*	l x	1 1	1	!	1	x	0 x	Local, rare. Common. Locally common.
		1						,						

			Bellie.	Rathven.	Cullen.	Fordyce.	Loyndie.	Banff.	Gamrie.	Alvah.	King-Edward.	Turriff.	Forglen.	Marnoch.	Inverkeithnie.
MALVACEAB.														П	
Lavatera arborea, Linn	44.1	1		0											
Malva moschata, Linn	•••	2		Colones II						1		0			
M. sylvestris, Linn	***	3		1		1				*		0			
M. rotundifolia, Linn	•••	4													
TILIACEAE.															и
Tilia europæa, Linn	***	5	1					1		1			1	1	п
T. intermedia	***	6	0		x										
LINACEAE.										1					н
Radiola linoides, Roth	***	7								0					н
Linum catharticum, Linn	***	8	1	1	1	1	t	1	1	*	0		*	x	н
L. usitatissimum, Linn	***	9						1					*		н
GERANIACEAE.															н
Geranium sylvaticum, Linn	9'0 0	10			1	1	1		0	1	0	1	1	1	1
G. pratense, Linn		11			0	*		1	0	1	0		1	1	н
G. pyrenaicum, Burm. fil	***	12					1								н
G. molle, Linn	410	13	1	1	1	1	1	1	1	1	1	1	1	1	п
G. dissectum, Linn	***	14	I	[1	1	1	1 1	1	1	1	1	!	*	1	
G. lucidum, Linn	***	15													П
G. Robertianum, Linn	***	16	1	1	1	1	1	1	1	1	1	1	1	1	1
b. modestum, (Jord.)	***	17										1			۰
Erodium cicutarium, L'Herit.	***	18	1	1	1		1	1							н
Oxalis Acetosella, Linn	000	19	1	1	1		1	1	1	1	1	0	1	I	1
b. purpurascens, DC	0.00	20		1						x					н
Impatiens Roylei, Walp	***	21		-	No.		1	1	1	1		1			
			-				1	11.000			1				
					1		1				1	1			
				-		1		-	1	-		1			

	Rothiemay.	Cairnie.	Cabrach.	Kirkmichael.	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiquhill.	Grange.	Keith.	Botriphnie.	Mortlach.	
1 2 3 4		0				*	*					x			Alien Alien
5		x				*					1	*			Planted. Planted.
7 8 9	1	x	dry	x	x	! x	*	1	9	1 *	1	1	x	x	Locally common. Casual.
10 11 12	x	х	*	x	*	*	*					1	х	x	Locally common.
13 14 15	! dry	x	*	x	x	1		x	1	1	1 0	x 1	x	x	Rather common.
16 17 18	dry	x	***	x 0	x	*	*	1	!	*	0	90	x	x	Common, especially in woods. Sandy coasts and fields.
19 20 21	t	x	*	x	x	Ē.	*	!	2	1	9	1	x	x	In woods, common. Alien.
+PROKA										-					

	3 4	x 1	1				1		* t			*	*	
•••	3	1		and	The second section of the second section secti		9.		1				*	
•••	3			But Desirence Control			9		1			e e	*	
***	4			Bud Facility (1)			9.					*	*	
***	4			Bud Bud Bud Bud Bud Bud Bud Bud Bud Bud			8					!	*	
***	5	1							0			*		
***	5	1 1							0			hr .		
***	5	1							0			*		
***	5	1							0			*		
	6	1												
	6	1 1	1											
		1	1	1	1	1	1	1	1	1	1	1	1	
***	7	1		1				1				*		
	1 8	1	1	1			1	!	1		x	x		
000	9	1	1	1	İ		1		1		x	1		
***	10		x	x					0	0			*	
***	11	1	1 1	1	1	1	1	1	1	1	1		1	
***	12	1 1	1	1	1	1	1	!	1	1	1	1	1	
***	13						1							
***	14	1	1	1		1	1	1	1			1		
***	15	1		1			-			1		x		
***	16					1			0					
***	17	The state of the s	0						3					
***	18		1	i	*	1	1 :	1		*				
***	19	1	0		x	1	1	0		1				
	****	9 10 11 12 13 14 15 16 17 18	10 11 1 12 1 13 14 15 16 17 18	10 x 11 1 1 1 1 1 1 1	10 x x x 11 1 1 1 1 1 1 1	10 x x x 11 ! ! ! ! ! ! ! !	10	10 x x x 11 1 1 1 1 1 1 1	10 x x x 11	10 x x 0 0 11 1 1 1 1 1 1 1	10 x x	10 x x	10 x x	10 x x 0 0 * 11 1 1 1 1 1 1 1

amount of	All formation from the														
	Rothiemay.	Cairnie.	Cabrach.	Kirkmichael.	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiqubill.	Grange.	Keith.	Botriphnie.	Mortlach.	
3					*	*	**	2	1)	1		*		*	Bank of Spey near Fochabers. Planted. Often planted. Planted.
6 7 8 9	1	x	The second secon		x	*	*	1	6 g	1	x	! * x	x	x	Planted. Planted (always?) Planted. Planted.
10		x	dry	x	x	*	*	x			0	*		x	
11	!	x	*	x	x	1	*	1	1	1	1	1	×	x	Common.
12	1	x	*	x	x	0-0	*	1	1	1	1	1	x	x	Common.
14 15 16	! dry					0	*		1	*	1			0	Planted. Planted. Scarce.
17 18 19	diy					*	! *		a.e		0		х	0	Alien. { Local on waste ground and in fields. Casual.

				Bellie.	Rathven.	Cullen.	Fordyce.	Boyndie.	Banff	Gamrie.	Alvah	King-Edward	Turriff.	Forglen.	Marnoch.	
EGUMINOSAR—Contd.				Ī												
M. alba, Desr	. ***	1+4+	1		0					1						
Trifolium pratense, Linn.	***	000	2	1	1	1	1	1	1	1	1	1	1	1		
b. sativum, Schreb	***	***	3						x							
T. medium, Linn	***	***	4	1	1 1		1	1 1	1	!	!	1	!	!	. 1	ı
T. incarnatum, Linn	***	***	5.						!							
T. arvense, Linn	***	***	6		x	1		0	1		0				,	
T. striatum, Linn	•••	668	7					0								
T. hybridum, Linn	•••	000	8	!	1	1	!	1 1	1	1	1	1	!	ı	1	
T. repens, Linn	***	***	9	1	1	1	1	1 1	1	t	1	!	1	1	1	
T. agrarium, Linn	***	•••	10						1	0	x					
T. procumbens, Linn.	***	***	11	1	1	1	1	[]	!	1	1	1	1	1	*	
T. dubium, Sibth		***	12	1	1	1	1	t	1	1	1	1	1	1	1	
Trigonella cærulea, Ser.	***	***,	13													
Anthyllis Vulneraria, Linn.	***	***	14	1	1	1	1	1	!	1	1	0	!	*		
Lotus corniculatus, Linn.			15	1	1	1	t	1	1	!	1	1	1	1	1	
b. crassifolius, Pers.	***		16						1	1						
L. uliginosus, Schkuhr.		***	17	1	1		*	1	1	1	1	1	1	1	1	
Astragalus danicus, Retz.	***	***	18	1	1	1	*	İt								
A. glycyphyllos, Linn.	***	***	19				1	10								
Ornithopus perpusillus, Line	n.	0.00	20								0					
Vicia hireuta, Gray	***	***	21	1	1	1		1 1	1	1	0	1			*	
V. Cracca, Linn		•••	22	1	1	1	1	1 1	1	1	1	1	Ť	!	1	
V. sylvatica, Linn			23				*	*	1	1						
V. sepium, Linn	100		24		1	1	1	1	1	1	1	1	1	1	. 1	
										· •	1					
					1											
												1				

-SACON		y 4 miles	person		the second	checkend	un makaran	TOWN COM	-	sum social	According as the	Same and a		was to come	
	Rothiemay.	Cairnie.	Cabrach.	Kirkmichael	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiqubill.	Grange.	Keith.	Botriphnie.	Mortlach.	
1 2 3	:	x	dry	x	x	t	*	1	1	İ	1		x	X	Casual. Common.
5 6	1	х	dry	x	*	1	*	1	1	1	1	ţ	x	x	Local. Introduced. Casual.
7 8 9	1	x	dry	x	x	1	x *	1	1	!	1	. 1	x	x	Introduced, occurs as alien.
10	ī		*		*	1	. *	x			!	1	x	x	Casual. Common.
12 13	dry	x	dry	x	x	1 x	*	! x		1	Ī	1	x	x	Common Casual or alien?
14 15	!	x	*	x	x	1	*	1	1	1	1 1	x 1	x	x	Common.
16 17 18		x			*		:	!	direction of the second of the	dese	ŧ	x	x	х	On coasts. Locally common on damp ground Sandy coasts. Alien?
31			The Disput County County County or Adding to		x	!	*				1	*		*	Local.
22	1	x	*	*	x	1	*	!	-	!	t	!	x	x	Common. Local.
4	!!	x	*	x	x	1	*			!	İ	1	x	x	Common.
									4 1111111111111111111111111111111111111						

		Bellie.	Bathven.	Oullen.	Fordyce.	Boyndie.	Banff.	Gamrie.	Alvah	King-Edward.	Turriff.	Forglen.	Marnoch.	
LEGUMINOSAE—Contd.														2
V. sativa, Linn	1	1		1	1	1	1	1	1	0	0	1	1	
V. angustifolia, Linn	2	1		1		1	1	1	0	0	0		*	
V. lathyroides, Linn	3		1			1	1		0					
V. Faba, Linn	4													
Lathyrus pratensis, Linn	5	1	1	1	1	1	1	1	1	1	1	1	1	
L. montanus, Bernh	6	1	1		*	1	1	1	1	0	0	1	1	
b. tenuifolius, Roth	7										0			
Pisum sativum, Linn	8													
ROSACEAE.														
Prunus spinosa, Linn	9		1	1	1	*	1	1	1	0	0	1	1	
P. avium, Linn	10		1	1	1	1	1	0	1	1	0	*	1	1
P. Cerasus, Linn	11								0					Į.
P. Padus, Linn	12		1				1		1		0	1	1	
Spiræa salicifolia, Linn	13							0	1	0		*	-	ı
S. Ulmaria, Linn	14	!	11	1	1	!	1	!	1	1	1	1	1	
Rubus idæus, Linn	15	1	1	1	1	1	1	1	1	1	1	1	1	
R. fissus, Lindl	16													IJ
R. suberectus, Anders	17		1											п
R. Rogereii, Linton	18													
R. plicatus, Wh. & N	19		ш						0					
R. villicaulis, Koehl	20													
R. mucronatus, Blox	21						-							-
R. melanoxylon, Muell. & Wirtg.	22		1				1	0	!		0			-
R. infestus, Weihe	23							0	0	0				

	Rothiemay.	Cairnie.	Cabrach.	Kirkmichael.	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiquhill.	Grange.	Keith.	Botriphnie.	Mortlach.		
1	1	x	*	x	x	*		x	1	1		1	x			Calmin
2						x	x	x	1		0			0		Colonist. Local.
3								-			0			U		Very local.
4						x	x	x						x		Alien.
5	1	x	*	x	x	1	*	i	1	1	1	1	x	x		Very common.
6	!	x	dry	x	x	ŧ	*	1	x	1	1	1	x	x		Common.
7			dry			1									-	
8							x									Alien or casual.
9		x	*	x	*	*	*	ī	1		1	1 1	x	*	1 1	Nowhere common.
0	x	x	*	x	x	*	*	Ī	x	*	x	*	x	x		Planted (always?).
1																
2	1	x		x	x	*	*	x		1		x	x	x		Alien?
3							*					,				Often planted in hedges
4	Ī	x	*	x	x	1	*	1	1	1	1	1	X	x		Very common.
5	į	x	*	x	x	1	*	1	1	1	1	1	x	x		Very common.
3			i			*								*		
3						*		x								
)						*										
)			-			*										
23									1							
3																
-				1											-	

		Bellie.	Rathven.	Cullen.	Fordyce.	Boyndie.	Banff.	Gamrie.	Alvah	King Edward	Turriff.	Forglen.	Marnoch.	
ROSACEAE—Contd.												-	1	ì
R. radula, Weihe	1							0						ı
c. echinatoides, Rogers	2													ı
R. foliosus, Wh. & N	3													ı
R. Koehleri, Wh. & N	4		1					0						ı
R. dasyphyllus, Rogers	5						1							ı
R. corylifolius, Sm	6								0	0				Ì
a. sublustris, (Lees)	7													į
R. saxatilis, Linn	8							1	0		0		1	ı
R. Chamaemorus, Linn	9		11.		1									١
R. spectabilis, Pursh	10						1							ı
R. nutkanus, Moc. ex Ser	11						1					1	1	ı
Geum urbanum, Linn	12	1	,	1	1	1	1	1	1	1	1	1	1	į
G. rivale, Linn	13			ž	1	1	1	1	1	0	0	1	1	ı
× urbanum	14				*	+								ı
Fragaria vesca, Linn	15	1			1		1	0	1	0	0	1	1	ı
F. moschata, Duchesne	16					ĺ	1		0	0			1	ĺ
Potentilla sterilis, Garcke	17								0					ĺ
P. erecta, Hampe	18	1	11	1	1	1	1	1	1	1	1	1	1	ı
P. procumbens, Sibth	19							0		0	0			ı
P. Anserina, Linn	20	1	1	1	1	1	1	1	1	1	1	1	1	ı
P. palustris, Scop	21	1	1	1	1	1	1	1	1	0	0	1	1	
P. Sibbaldi, Hall. fil	22													
Alchemilla arvensis, Scop	23	1	i	1	1	ŧ	1	1	1	1	0	1	1	

											. 4	1			
	Rothiemay.	Cairnie.	Cabrach.	Kirkmichael.	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiquhill.	Grange.	Keith.	Botriphnie.	Mortlach.	
1 2 3 4 5 6 7 8 9			x dry	x	*	*	*	1		2			x	x	
1 2 3	! dry	x	*	x	x *	į į	ie #	! *	!	* 1	!	1	x	*	Common Not very common
4 5 6	x	x	*	x	*	t x	*	1	1	i	0	1	x x	*	Local. Alien.
7 8 9	î	x x	* x	x	x	* 1 x	*	* ! * *	1	1	1	! *	x	x	Common.
0 1 2	1 *	x	* dry	x	* X	1 1	*	! ×	1	1	1	1 x	x	x x	Common. Locally common.
3	1	x	dry	x	x	1	*	1	1	!	x	1	x	x	Not very common.
						,									

-			Bellie.	Rathven.	Cullen.	Fordyce.	Boyndie.	Banff.	Gamrie.	Alvah.	King-Edward.	Turriff.	Forglen.	Marnoch.
ROSACEAE-Contd.														
A. vulgaris, Linn	***	1												
a. pratensie, Pohl		2	1		1	ī	1	1	1	1	0	0	1	1
b. alpestris, Pohl	•••	3	1			1	. 1	1		1	1	0	1	1
c. filicaulis, (Buser)		4												
A. alpina, Linn		5	1							0	0			
A. argentea, G. Don		6						*						
Agrimonia Eupatoria, Linn	•••	7		0		1	1	0	0	0	1	0		
Poterium Sanguisorba, Linn	***	8		,			1							
Rosa pimpinellifolia, Linn	•	9	1			dry	1		1					
× coriifolia (R. hibernica,	Sm.)	10							1					
× canina (R. hibernica,	var.													
glabra)		11							dry					
f. spinosiseima, Linn		12				dry	dry		dry	0				
R. mollie, Sm		13	1		dry	?	1		dry	dry	dry	dry		dry
× pimpinellifolia		14					1							
R. tomentosa, Sm		15	1	1	1	1				dry	äry	dry	x	
R. Eglanteria, Huds	,	16						x	1	dry	*	dry	x	
× pimpinellifolia		17										1		
R. canina, Linn., agg	***	18								0				
a. lutetiana, (Leman)		19								dry				
g. dumalis, (Bechst.)		20												
R. dumetorum, Thuill		21												
R. glauca, Vill		22	1	dry		dry	1		1	dry	dry	dry	x	dry
e. subscristata, (Baker)		23	i				1		1					
R. coriifolia, Fr		24	1		dry	x	1	x		dry	dry			
											1			

	Rothiemay.	Cairnie.	Cabrach.	Kirkmichael	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiquhill.	Grange.	Keith.	Botriphnie.	Mortlach.	
1	١.		1.												
2	1	x	1		*	*	X	1	1	1	1	1	- XI	x	Not very common.
3	1		1	x	x	1	X	1	1	(1)	1:	1:	×	x	Not very common
4				0											
5			*	x	*	*	*	1			0 .	0 -		0	
6															
7															Scarce.
8													*	1	Casual.
9			1	0		*						1			The distribution of the Rosae has
0			1												been written up by Mr W. Bar- clay, Perth (vide Introduction) and thus a change in the mean-
П															ing of two symbols is rendered necessary:
1			1												!=Seen by Mr Barclay in the parish indicated, and
2						*					0			0	dry=Dried specimens have been
3		1	dry	x	x	1	*		dry		1	1	F	1	dry=Dried specimens have been seen by Mr Barclay from the parish indicated.
4				dry											
5		x	dry	0		t			1		0	1	1	x	
6		×				x					1				
7					*?									,	Not nativeescape from cultiva
8							*			*				0	tion.
9			1	1		1						1			
0				1		1						1		*	
1					1	1						1			1
2	x	x	dry			1			x		1	1	!	i	
				0	1	1						1	1	1	
4	1	x	dry		*	1	*		x		1	1	1		
	1				1									1	
				1						1	1				

			Bellie.	Rathven.	Cullen.	Fordyce.	Boyndie.	Banff.	Gamrie.	Alvah	King-Edward	Turriff.	Forglen.	Marnoch.	Tours of the same
ROSACEAE—Contd.		+						-							-
Pyrus Aria, Ehrh	***	1			1			1	0	1	0		*	x	
b. rupicola, Syme	***	2													
P. Aucuparia, Ehrh		3	1	1	1	1	ī	1	!	1	1	1	1	1	
P. Malus, Linn	***	4			1		*	Ī		1					
Crataegus Oxyacantha, Linn.	***	5	i	1	1	1	i	1	1	1	1	1	1	1	
SAXIFRAGACEAE.					}										
Saxifraga oppositifolia, Linn.	***	6							:						
S. stellaris, Linn	***	7													
S. umbrosa, Linn	***	8								Î			1	*	
S. aizoides, Linn	***	9								0	0				
S. granulata, Linn	***	10	1	0	x	*	1	1	ī	*					
S. hypnoides, Linn	***	11							1			0			
Chrysosplenium oppositifolium,	Linn.	12			1	*	1	1	i	1	1	1	1	1	2
C. alternifolium, Linn	***	13						1	0	1	1	0	*	1	2
Parnassia palustris, Linn	***	14		×	1	1	1		1	*					
Ribes Grossularia, Linn	***	15				x	*	İ	0	1	0	0	*	ī	
R. alpinum, Linn	494	16						*							
R. rubrum, Linn	•••	17								1				*	
b. petraeum, (Sm.)	***	18													
R. nigrum, Linn	000	19						1		0	0		*		
R. sanguineum, Pursh	000	20						î		1					
CRASSULACEAE.															
Sedum roseum, Scop	000	21							t						
S. Telephium, Linn		22					i	i		1					

-			-	-	-	-			-			-	-		
	Rothiemay.	Cairnie.	Cabrach.	Kirkmichael.	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiquhill.	Grange.	Keith.	Botriphnie.	Mortlach.	
1 2	t	x		0					1	*	1	We will be a series of the ser		*	Generally planted.
3	1	x	*	x	x	1	*	ı	1	1	1	1	x	x	
5	1	x	*		*	Ī	*	1	1	i	i i	1	x	x	Generally planted—frequent in hedges.
6 7 8			dry	×		*	*					The second		- distribution	Cliffs at Greenside.
9				x								Paragraphy		0	Nowhere common.
1	١.			١.		Ι.									Occurs at Greenside with S. oppositifolia.
3	1		dry	x	x	1 *	*	1	1	1	1	1		•	Fairly common.
	1	×	dry	x		*	*	x		1	x	1	x	0	Local. Rather common on damp coasts.
5	x	x	*		*	*	*	x	1	1	1	x	x	x	Tather common on damp coasts.
	x		*			*								0	
								1	*						
						x					E PROPERTY COMMENTS			Omnous Endough	Cliffs between Tarlair and Gamrie. Probably var. Fabaria, Wats.
200g					1									1	

			Bellie.	Rathven.	Oullen.	Fordyce.	Boyndie.	Banff	Gamrie.	Alvah.	King-Edward	Turriff.	Forglen.	Marnoch.	Inverkeithnic
PRASSULACEAR—Contd.							_				-				
S. purpureum, Tausch	•••	1		-											
S. villosum, Linn	***	2								0		0			
S. album, Linn	***	3		-				1		*	1	1			
8. anglicum, Huds	***	4	1				1	1							
S. acre, Linn	0,00	5	11	1		1	1	1	1	1				1	
Sempervivum tectorum, Linn.	***	6		1				i		*					
PROSEBACEAE.					1										н
Drosera rotundifolia, Linn	***	7	1	1	x	1		12	, 0	1	0			1	
D. anglica, Huds		8			ŀ					*	0				
× rotundifolia	***	9									0				
IALORAGACEAE.															
Hippuris vulgaris, Linn	***	10	1					1	0	1		U	1		
Myriophyllum spicatum, Linn.	***	11		1	1										
M. alternislorum, DC		12	1			*	*			t	0	0	1	x	
Callitriche verna, Linn., aggr.		13	1	1		*)	1		1	î	1	0	*	1	
C. stagnalis, Scop	•••	14	1			x	î		1	i	0	0	1	*	x
C. intermedia, Hoffm	000	15	1	1				1	0	1	0	0		i	x
C. autumnalis, Linn	•••	16								*					
YTHRACEAE.															
Peplis Portula, Linn	4.00	17					1	1	1	*	1		* (*	
Lythrum Salicaria, Linn	***	18		4				1							
NAGRACEAE.															
Epilobium angustifolium, Linn.	***	19				*			1	*				*	

-		CA MOIDNE	agramaman	-				AND DESCRIPTION	ON CHARLES					ALPHO AND	
	Rothiemay.	Cairnie.	Cabrach.	Kirkmichael.	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiquhill.	Grange.	Keith.	Botriphnie.	Mortlach.	
1			1	0 *		*									
3			dry			*								0	
1															
5	*		*	x	*	*		1						*	Frequent on coast.
3			*												
						1									
3	!	x	dry	x	x	1	*	1		1	t	*	x	x	Locally common
3										1	1			0	Local.
1										t	1			- 1	
)	1	0	dry		1	*				1	x	×	x	x	Rather scarce.
							*								
	x	x		0		x	x	1				x.	x	x	
3	1		*				*								
Į	1	x	x	x	x	*	*	1		1	x	x	x	X	
ì						1		1			x	x	x		
ľ															
			*											1	Not common.
															Casual.
			*						1					1	
١			-	0		*	*							1	Alien.
				1		1									
-	Marin Marin	-													

		Bellie.	Rathven.	Cullen.	Fordyce.	Boyndie.	Banff.	Gamrie.	Alvah	King-Fdward.	Turriff.	Forglen.	Marnoch.
ONAGRACEAE—Contd.													
Epilobium hirsutum, Linn	1	1				1					0		
× obscurum	2												
E. parviflorum, Schreb	3		x	1	1	1		1					
E. montanum, Linn	4	1		1	*	1	1	1	1	1	1	1	1
× palustre	5												
E. obscurum, Schreb	6	1	1	ж	1		1	1	1	0	0		1
E. palustre, Linn	7	1		1	*	1	1	1	1	1	1	!	1
E. alsinefolium, Vill	8												
× montanum	9												
× obscurum	10												
× palustre	11												
E. anagallidifolium, Lam	12												
× obscurum	13												
Circeea alpina, Linn	14		0	x							0		
b. intermedia, (Ehrh.)	15								*				
Umbelliferae.													
Hydrocotyle vulgaris, Linn	16	1	1	1	1	1	i	1	0	0	0		
Astrantia major, Linn	17												
Sanioula europæa, Linn	18							0	0				
Conium maculatum, Linn	19		1			*	i	1					
Smyrnium Olusatrum, Linn	20				*								
Apium inundatum, Reichb. f	21	1	х		1	1	1	1					
Carum Carvi, Linn	22		1						1			*	
C. Segetum, Benth. & Hook. f	23				*								

	- MINO 0		denne reces				K other books					U			
	Rotinemay.	Cairnie.	Cabrach.	Kirkmichael.	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiqubill.	Grange.	Keith.	Botriphnie.	Mortlach.	
1 2 3 4 5 5 6 7 3 9 9 1	!	x x	* dry dry	x x x 0 0 0 0 0 0	x x	* ! ! !	* *	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	x x	0 x x	Local. Rather common. Ditches and marshy ground. Ditches and marshy ground.
1						x		1	1			*	x	0 x	Rare.
		x			*	*				1		**		*	Locally plentiful.
۱		x				*	*		1			1	x	0	Local.
,						* .	*				0	*		0	Denizen.
	1		*		x	*	*	!	!	1	1	*			Local. Alien. Casual—I have seen no specimen.

		Bellie.	Rathven.	Cullen.	Fordyce.	Boyndie.	Banff.	Gamrie.	Alvah.	King-Edward	Turriff.	Forglen.	Marnoch.
Umbelliferae—Contd.													
Ægopodium Podagraria, Linn	1	1		1	1	1	1	!	i	1	1	1	1
Pimpinella Saxifraga, Linn	2				x				0				
Conopodium majus, Loret	3	1	1		1	1	1	1	İ	1	1	1	1
Myrrhis Odorata, Scop	4	1	1		*	*	1	1	1	1	1	1	*
Chærophyllum temulum, Linn.	5	1			1	ī			0		x		
Scandix Pecten-Veneris, Linn.	6								0				
Anthriscus vulgaris, Bernh	7	1 .	0										
A. sylvestris, Hoffm	. 8	11	1		1	1	1	1	1	1	1	1	1
Oenanthe crocata, Linn	. 9	1							1				
Meum Athamanticum, Jacq	10												
Ligusticum scoticum, Linn	11		1	1	i	1	1	1					
Levisticum officinale, Koch	12		# 1 3										
Angelica sylvestris, Linn	13	1	1	1	Ī	1	1	1	ı	1	1	1	1
Peucedanum Ostruthium, Koch	14			1					*				*
P. sativum, Benth. & Hook. f	. 15	1						0					
Heracleum Sphondylium, Linn	16	1 1	1	1	1	1	1	1	1	1	1	1	1
b. angustifolium, Huds	17					1		1	1	1			
H. giganteum, Fisch	18						1		1			1	
Daucus Carota, Linn	19					1	1	1	1				*
Caucalie Anthriscus, Huds	. 20			1	1	1.1	1	!	1	1	1	1	1.1
RALIACEAE.													
Hedera Helix, Linn	. 21			1	1	1	i	1	1	1	1	1	
OBNACEAE.	1	1								1	1		
Cornus suecica, Linn	. 22	1					1						

	Rothiemay.	Cairnie	Cabrach.	Kirkmichael.	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiquhill.	Grange.	Keith.	Botriphnie.	Mortlach.	
1	1	x		x	*	1	*	1	1	1	1	1	x	x	Common.
2	1			*	x	1	*								Local.
3	1	x	*	x	x	1	*	1	1	ī	1	1	x	x	Common.
4	1	x	*		*	t	*	1	1	1	1	1		x	Alien—common by streams and near houses.
5			*			*									Local.
6							*		1		dry			0	Local.
7							dry							x	Rare.
8	1	x	*	x	x	1	*	1	1	1	1	1	x	x	Common.
9															
10			dry	0											
11															Coast.
12				x			*								Escape or relic of cultivation.
13	1	x	*	x	x	1	*	1	1	ī	1	1	x	I	Common.
14	x		*			*									
15															3
16	1	x	*	x	x	1	*	1	1	î	İ	1	x	x	Common.
17									1	1		I	x	I	Not so common as type.
18						*									Alien.
19			dry *	x		*			İ	Ī					Colonist?
30	x		1			x	x	x	1			*		0	Locally common
21			*			*		1	1			*			
W.	x					1		1	1	Ī			x	x	Local.
22			dry			*									
113															

		Bellie	Rathven.	Cullen.	Fordyce.	Boyndie.	Banff.	Gamrie.	Alvah.	King-Edward.	Turriff.	Forglen.	Marnoch.
Caprifoliaceae.										de material pro-	** ···		
Adoxa Moschatellina, Linn	1		0	0	*	0	i		1	0			
Sambucus nigra, Linn	2	1	İ	1	1	1	1	1	1	1	!	1	1
S. Ebulus, Linn	8								*				
S. racemosa, Linn	4								1		7	Z	
Viburnum Opulus, Linn	5						1		*			*	
V. Lantana, Linn	.6												
Linnsea borealis, Lann	7	0	0		1	1			1	0	0	*	
Lonicera Periclymenum, Linn	8	1		1	1	1	1	ī	1	!	!	1	į
L. Xylosteum, Linn	9								1				
Symphoricarpus racemosus, Michx	10						1		1	!	x	1	*
RUBIACEAE.													
Galium boreale, Linn	11	1							0				
G. Cruciata, Scop	12				#								
G. verum, Linn	13	1	1	1	!	1	1	1	. !	!	1	1	1
G. Mollugo, Linn	14			1				0	0				
G. saxatile, Linn	15	1	1	ī	!	1	!	1	1	1	1	!	1
G. asperum, Schreb	16							0					
G. palustre, Linn	17	1			!	1	!	1	!	0	0		
b. elongatum, (Presl.)	18												
c. Witheringii, (Sm.)	19	1				!	1	1	!			1	1 1
G. uliginosum, Linn	20								0		0?		
G. Aparine, Linn	21		1	ī	i	ŧ	1	1	1	1	1	1	1
G. tricorne, Stokes	22												

C-West	-		_										-		
	Rothiemay.	Cairnie.	Cabrach.	Ki-kmichael.	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiquhill.	Grange.	Keith.	Botriphnie.	Mortlach.	
1			dry			*	*					*		0	Rare.
2	!	X	*	X	X	1	*	1	1	1	1	1	x	x	Generally planted.
3														0	
4															
5					. 1	*	*					*			
6								1				x			
7		x			*	*			1	*	0			0	Local.
8	1		*		*	1	*	1	İ	1		. 1	x	ж	Generally planted.
9															
10	1							1	1	:		x	ж	1	Planted.
11				*		1	*	1						0	
12												0			See note on old record.
13	1	x	dry	x	x	1	*	1	1	1	1	Ī	x	x	Very common.
14											0				
15	!	x	dry	x	x	1	x	1	1	1	1	1	x	x	Very common.
16				x											
7	*	x	*		*	x	*	x	1	x	x	x	x	x	
8						*						x			
9	!	x		x	x	*	x	1			1	1	x .	*	Locally common.
10		x	*	0	*	*	*	x			0		x	x	
1	1	x	*	x	x	1	*	1	1	1	1	1	x	x	Very common.
2						x	x	x							Introduced with Distillery grain.
120	-	STATUS NAMED IN	Acces	-	-	-	-	-	-		-	-	-	_	

			Bellie.	Rathven.	Oullen.	Fordyce.	Boyndie.	Banff.	Gamrie.	Alvah.	King-Edward.	Turriff.	Forglen.	Marnoch.
RUBIACEAE—Contd.														
Asperula odorata, Linn	•••	J	0		x	*	0	*	0	0	1	0		
A arvensis, Linn	•••	2												
A. taurina, Linn	•••	3												
Sherardia arvensis, Linn	•••	4			1	1	1	1	1	İ	i	0		
VALERIANACEAE.														
Valeriana dioica, Linn	•••	5											x	
V. sambucifolia, Mikan	•••	6	1				-	1	1	1	0	1	1	1
V. pyrenaica, Linn	•••	7			x				0	*				
Valerianella olitoria, Poll	•••	8					1			0				
V. dentata, Poll	•••	9								0				
DIPSACACEAE.							!							
Scabiosa Succisa, Linn	***	10	1	1	1	1	1	1	1	1	1	1	1	1
S. arvensis, Linn	•••	11			l.		i							
COMPOSITAE.														
Eupatorium cannabinum, Linn.	••	12							6					
Solidago Virgaurea, Linn	***	13		1	x	1	1	1	1	1	0			
Bellis perennis, Linn	•••	14	1	1	1	i	1	i	1	1	1	1	1	1
Erigeron acre, Linn	***	15												
Filago germanica, Linn		16	1		1		1	t	0	0				
F. minima, Fr		17	i	x			1	1			0			
Antennaria dioica, Gaertn	***	18				1			i	*			*	*
A. margaritacea, Br		19								*				
Gnaphalium uliginosum, Linn.	***	20	1	1		1	1	1	1	1	1	0	1	1
G. sylvatioum, Linn	***	21					1	1	1	, 1	1	0		1
											1			
					1									

				-	П											
	Rothiemay.	Cairnie.	Cabrach.	Kirkmichael.	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiqubill.	Grange.	Keith.	Botriphnie.	Mortlash.		
1 2 3 4	See To To To To To To To To To To To To To		*	0	*	x	X	X	1	*	0	*	x	0	I	are. atroduced with Distillery grain ather common.
5			П													
6	1	X	*	x	x	1	*	i	1	1	x	1	x	x	0	ommon.
8 9									1			0			R	are.
10	1	x	*	x	x	1	*	1	1	1	1	1	x	×	C	ommon.
11	1		dry												R	are.
13			dry	x	x	. 1	*	1				*	x	x	L	ocal.
5	.1	x	*	0	x	1	*	1	1	İ	1	1	×	x		
1	dry						*		1						L	ocal—nowhere abundant
7						i	*	1						0	L	ocally common.
8			dry	x	х	*	*			1	1	*		۵	Pl	anted.
0	!	x				1	*	i	1	x	×	x		*		ocally common.
3	1		dry	x	x	*	*	x	1	x	0		x	0	L	ocally common.

			Bellie.	Rathven.	Cullen.	Fordyee.	Boyndie.	Banff.	Camrie.	Alvah.	King-Edward.	Turriff.	Forglen.	Manager 1.
OMPOSITAE—Contol.														
G. supinum, Linn	***	1												
Bidens cernta, Linn	,	2								0				
Achillea Millefolium, Linn		3	1	1	1	1	1	1	!	1	1	1	1	
A. Ptarmica, Linn		4:	1	1	1	1	1	1	1	ŧ	1	1	1	
A. tomentosa, Linn	.,	5												
Anthemis arvensis, Linn	•••	6	x											
A. Cotula, Linn	•••	7		1		**	*							
Chrysanthemum segetum, Linn.		8				*	!	1	· I	1	1	0	*	
C. Leucanthemum, Linn	***	9	1	1	1	1	1	1	1	. 1	1	1	1	
C. Parthenium, Bernh		10				1	*	1	0	1	1	0		
C. macrophyllum, Waldst. & K	it	11												
Matricaria inodora, Linn		12	1	!	1	!	!	!	!	1	!	0	*	
M. maritima, Linn	*** *	13	1	1	1	1	!	1	!					
M. suavcolens, Buchenau	•••	14		1					!					
Tanacetum vulgare, Linn,	***	15				1	1	1	!	1	0	0	1	
Artemisia Absinthium, Linn	0 0 0	16		1			1							
A. vulgaris, Linn		17		!	1	1	1	1	!	x	0			
Tussilago Farfara, Linn	***	18	1	1	!	1	1	1	1	1	1	!	1	
Petasites ovatus, Hill	***	19				*	1	1	0	!	0	1	!	
P. albus, Gaertn	***	20						!		1		x		
Doronicum Pardalianches, Linn.		21						1		*			1	
D. plantagineum, Linn	***	22						0						
Senecio vulgaris, Linn		23		1	1	1	1	1	1	Ī	1	t	!	
S. cylvaticus, Lion		24	1		1	1	1	1	1	1		0	1	

	_		-		_							-				-
	Rothiemay.	Cairnie.	Cabrach.	Kirkmichael.	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiquhill.	Grange.	Keith.	Botriphnie.	Mortlach.		
1 2			36	x		*	*									
3	!	x		x	x	1		1	ī	1	1	1	x	x		Very common.
4	1	x	*	x	x	1	*	1	1	1	İ	1	×	x		Common.
5 6 7			x			*		0	,		x			*		
8	*		*		*	*	*		1	1	0	x		*		Colonist
9	1	x	*	x	*	1	*	1	1 .	1	1	x	x	x		Common.
10	1	x				*	*	1					x	x		Alien.
11						*										
12	!	x	*	x	x	1	*	x	1	1	1	x	.x	x		Common.
13															- 4	Coast.
14															1	Denizen.
15	ŧ	*	*			*	*			1	x	*	x	0	i	Alien.
16						*						*				
17	Ī	x	x			1	*	x	1		0			x	1	Local.
18	ī	x	*	x	x	1	*	î	t	1	1	t	x	x		Very common.
19			*			*			1			x		*		Frequent by streams.
20		x			*	x		x	1					x	1	Alien.
21																Alien.
22																
23	!	x		x	x	1	*	1	1	t	1	1	x	x	1	Very common.
24		x			*	1	*	x			0	*		*		Common.

				Bellie.	Rathven.	Cullen.	Fordyce.	Boyndie.	Banff.	Gamrie.	Alvah.	King-Edward.	Turriff.	Forglen	Marnoch.
COMPOSITAR—Contd.				~ 11 3000							magnine sign spream.			-	П
Senecio viscosus, Linn.	••		1				!								
S. Jacobæa, Linn			2	!	1	10	1	1	1	!	!!	!	1	!	
S. aquatious, Hill			3	1		x	1	1	1	1	1	1	1	1	1
S. sarracenicus, Linn.			4								1				
Arctium minus, Bernh.	•••	• • •	5		!	х			Ī	1	1	1			
A. spp. agg			6	1			*	*	1	ŧ	0				X
Cnicus lanceolatus, Willd.			7	. 1	i	1	1	1	1	1	1	1	1	1	
C. palustris, Willd			8	!	!	1	!	1	1	!	!	1	1	1	
C. heterophyllus, Willd.			9	1										1	
C. arvensis, Hoffm			10	!	1	1	1	1	1	1	1	1	1	1	1
var. incanus, Fisch.			11												
Saussurea alpina, DC			12												
Centaurea nigra, Linn.			13	1	1	1	1	!	1	1	1	1	!	!	
C. Cyanus, Linn		***	14				*	*	1	!	0	1		*	
Cichorium Intybus, Linn.			15					!	1	!				*	*
Lapsana communis, Linn.			16	1	1		1	1	1	Ī	1	1	1	1	
Crepis capillaris, Wallr.		• • •	17	1	1	1	1	1	!	1	1	1	!	- 1	1
C. mollis, Aschers			18												
C. paludosa, Moench.			19				!	1	1	1	!	1			
Hieracium Pilosella, Linn.		-111	20	!	!	1	!	ŧ	1	. 1	1	1	!	1	!
c. nigrescens, Fr		•••	21												
d. concinnatum, F. J.	Hanb.		22												
H. aurantiacum, Linn.			23									ŧ	0		

	_			-		_			-	-	-	-			
	Rothiemay.	Cairnie.	Cabrach.	Kirkmichael.	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiquhill.	Grange.	Keith.	Botriphnie.	Mortlach.	
1										1			į		Coast near Portsoy
2	1	*	*	x	x	1	*	1	1	1	1		x	x	Very common.
3	,			_	*	1	*	x	1	1	1		x	x	Common.
4			}							1)					Alien (? casual).
5						*	*						1		20 CT 13
6		1					*	1			0			x	
7	1	x	*	x	x	1	*	1	1	1	1	1	x	x.	Very common.
8	1	x	*	x	x	1	*	1	!	1	1	i	x	x	Very common.
9			dry	x	*	1	*	x			x	1		0	
10	1	x		x	x	1	*	1	1	i	1	1	X	x	Very common.
11							dry						1		{ Carduus Marianus, Linn. occurs occasionally as an escape or
12				0											· coutcast.
13	!	x	*	x	x	1	*	1	1	1	1	1	x	x	Very common.
14	*					1	*		1		0		-	0 [Colonist—not common.
15							*			1			1	1	Colonist—rare.
16	1 ,	x	*	x	x	1	*	1	1	1	t	1	\mathbf{x}	x]	Common.
17	1 1	x	dry	x	x	1	*	1	1	1	t	1	×	*	Very common.
18				0											
19	1	x	dry	x	x	1	x	1	!	1	1	1	X	2	Frequent by streams.
20	1.	x	dry	x	x	1	*	1	1	ŧ	!	1	J. X	×	Common on dry banks.
21				Ö										1	
22				0										- }	
23						*	*								Escape.
4															
1															
				1											

			Bellie.	Rathven.	Cullen.	Fordyce.	Boyndie.	Banff.	Gamrie.	Alvah	King-Edward	Turriff.	Forglen.	Marnoch.
OMPOSITAE—Contd.													-	Ī
H. anglicum, Fr		1												
b. acutifolium, Backh	•••	2								1				
H. iricum, Fr		8												
H. holosericeum, Backh	•••	4												
H. eximium, Backh	***	5												
b. tenellum, Backh	•••	6												
H. gracilentum, Backh	***	7												
H. petiolatum, Elfstrand		8								1				
H. lingulatum, Backh		9									}			
H. chrysanthum, Backh		10												
H. nigrescens, Willd		11												
c. gracilifolium, F. J. Hanb.		12									1			
H. Schmidtii, Tausch		13							1		1			
c. crinigerum, Fr	***	14									}			
H. caledonicum, F. J. Hanb.	***	15							t		1			
H. argenteum, Fr	400	16		}					1					
b. septentrionale, F. J. Hanb.	•••	17							1					
H. Sommerfeltii, Lindeb	***	18												ı
H. pseudonosmoides, Dahlst.		19							1					
H. silvaticum, Gouan	***	20									١,			
f. prolixum, Dahlet	***	21												
H. variicolor, Dahlst	***	22		-								1		
H. serratifrons, Almq	***	23		-	1									
b. Stenstroemii, Dahlst	***	24			1									

								-		6	1			
Bothiemay.	Cairnie.	Cabrach.	Kirkmichael.	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiquhill.	Grange.	Keith.	Botriphnie.	Mortlach.	
1 2 3 4 5 6 7 3 9 0 1 2 3					1									Coast in Gamrie—rare. Coast in Gamrie—rare.

			Bellie.	Rathven.	Cullen.	Fordyce.	Boynetie.	Banff.	Gamrie.	Alvah.	King-Edward.	Turriff.	Forglen.	Marnoch.
COMPOSITAR—Contd.														
H. murorum, Linn	•••	1							0					
H. sarcophyllum, Stenstr	***	2							1					
H. euprepes, F. J. Hanb	***	3												
c. clivicolum, F. J. Hanb.	•••	4												
H. caesium, Fr		5						0						
H. vulgatum, Fr	••	6	1	1	x			1	0	1	0	0		1
b. sejunctum, W. R. Linton	***	7											1	
H. angustatum, Lindeb	***	8		3										
b. elatum, Lindeb	***	9												
H. pinnatifidum, Lonnr	***	10												
H. prenanthoides, Vill		11												
H. corymbosum, Fr	000	12												
H. auratum, Fr	•••	13												
H. boreale, Fr	***	14						1		0				
Hypochæris radicata, Lim	•••	15	1	1	1	1	1	1	1	1	1	1	1	1
Leontodon hispidum, Linn	***	16							?					
L. autumnale, Linn	***	17	1	1	1	1	1	. 1	1	1	1	1	1	1
e. sordidum, Bab	•••	18				×	ŧ.					x		
Taraxacum officinale, Weber	•••	19	1	1	1	1	1	1	1	1	I	1	1	1
T. palustre, DC	•••	20					1			0				
Sonchus oleraceus, Linn	400	21	1	1	1	1	1	i	1	1	-1	0		
S. asper, Hill	10.0.0	22	1	1	1	1	1	İ	1	1	11	0	×	1
S. arvensis, Linn	***	23	1	: 1	. 1	1	1	1	!	1	1	0	!	
Helminthia echioides, Gaertn										dry				

											.0				
	Rothiemay.	Cairnie.	Cabrach.	Kirkmichael.	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiquhill.	Grange.	Keith.	Botriphnie.	Mortlach.	
1 2 3 4 5 6 7 8 9 10 1 2 3		х	*	0 0 0			*		3		t	ž			Frequent
4	1	x	dry	ж	x	1	*	1	1		1	x	9) 1 x	x	Very common.
6 7	1	x	*	x	x	1	*	1	1	1	x I	x x	x x	x	Doubtful record. Very common.
	1 1	x	*		*	* 1	*	x	1 1	1	1 0 1	* *	K Comment of the Comm	x	Local. Fields and waste places. Fields and waste places. Fields and waste places. Casual.

			Bellie.	Rathven.	Cullen.	Fordyee.	Boyndie.	Banff.	Gamrie.	Alvah	King Edward.	Turriff.	Forglen.	Marnoch.
CAMPANULACEAR	1													
Lobelia Dortmanna, Linn		1												
Campanula latifolia, Linn		2		0	0			1		1	1	0	*	
C. glomerata, Linn		3						1						
C. rapunculoides, Linn		4						1				x		
C. rotundifolia, Linn		5	1	1	1	1	1	1	1	1	1	1	İ	
C. persicifolia, Linn		6		x										
C. Rapunculus, Linn		7												
VACCINIACEAE.														
Vaccinium Vitis-Idea, Linn	.	8		0 .	0			0		0		0		1
V. Myrtillus, Linn		9	1	1	1	1	1	1	1	1	1	1	1	!
Oxycoccus quadripetala, Gilib	. 1	10		0										
ERICACEAE.														
Arctostaphylos Uva-ursi, Spreng	. 1	п												
Calluna vulgaris, Hull	. 1	12	1	1	1	İ	1	1	1	1	1	1	1	1
Erica Tetralix, Linn	. 1	13	4 ;	1	1	1	1		î	1	0	1	1	1
E. cinerea, Linn	. 1	14	1 ,	:	1	1	1	1	1	1	1	1	1	1
Azalea procumbens, Linn	1	15												
Pyrola media, Sw	. [1	16							x	0		0		
P. rotundifolia, Linn	.] 1	17										0		
P. minor, Linn	1	8		1		*				1		0	1	
P. secunda, Linn	11	9								0		0		
Moneses uniflora, A. Gray	2	20												
PLUMBAGINACEAE.														
Armeria maritima, Willd	2	1	1	1	1	!	-1	1	1					

	Rothismay.	Cairnie.	Cabrach.	Kirkmichael	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiquhill.	Grange.	Keith.	Botriphnie.	Mortiach.	
1	2 A 16 17 18			0		-									
2				U	*	1	*	x							A11
3						1								x	Alien.
4															
5	!	x	*	x	×	1	*	1	1	1	t	î	ı	Z	Very common.
6															
7			1												
8		x	dry	x	x	*	*	1	1.	1	1	1	x	x	
9	1	x	*	x	x	1	*	1	1	1	t	1	x	x	Very common.
0			dry			*	dry								
1		*	dry	x	x	*	dry	t						x	
2	1	x	*	x	x	1	*	1	1	1	1	1	x	x	Very common.
3	1	x	*	x	x	1	*	1	1	1	1	1	x	x	Common.
1	1	X	*	x	x	1	*	1	1	1	1	1	x	x	Common.
5			dry	X		dry								0	
6	İ	x					*					*		0	Rare.
7															
8	0		*			1	*	1	1	1	1	1	x	0	Local.
.9	0						dry							0	
0	0													0	
21				x											The Kirkmichael plant is the mountain form.

			Bellie.	Rathven.	Cullen.	Fordyce.	Boyndie.	Banff.	Gamrie.	Alvah.	King-Edward.	Turriff.	Forglen.	Marnoch.
PRIMULACEAE.														
Primula vulgarıs, Huds		1		1	!	+	i	1	1	. 1	0	0	0 1	1
P. veris, Linn		2						1	0	(1)			*	
P. elatior, Jacq		3								0				
Lysimachia Nummularia, Linn.		4											*	
L. nemorum, Linn	***	5				*		1	0	1	0	0	1	1
Trientalis europæa, Linn		6	1	1	0	1	1	1	0	1	1	0	1	
Glaux maritima, Linn	•••	7	î	1	1	1	1	ī	İ					
Anagallis arvensis, Linn		8				i	*	1	i	0				
A. fæmina, Mill		.9												
A. tenella, Murr	***	10					1			0				
OLEACEAE.														
Fraxinus excelsior, Linn		11	î	t	i	1	9	1	1	1	1	,	1	,
F. Ornus, Linn	***	12						1						
Ligustrum vulgare, Linn		13	1		1				1	1	1		1	*
APOCYNACEAE.														
Vinca major, Linn		14												
V. minor, Linn		15						1		1	0		*	
GENTIANACEAE.														
Gentiana Amarella, Linn	***	16					0							
G. campestris, Linn		17		1		1	*	1	î					
G. baltica, Murb		18	x						0					
Menyanthes trifoliata, Linn		19		1			1	1	1			0		
Nymphoides peltatum, Rendle	&													
Britten		20										0		

-	-		-	-	-				_			-			
	Rothiemay.	Cairnie.	Cabrach.	Kirkmichael.	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiquhill.	Grange.	Keith.	Botriphnie.	Mortlach.	
			*			*	4							1	
1	1	X	1	х	Ш			1	1	1	0	1	X	x	
2				X		*	*								
3															
4			* ?												Alien.
5	dry	x	*		*	1	36	x	!	1	0	!	х	x	Local, especially in damp shady woods.
6	х	X	*	х	x	1 [* 1	1]	1	1	1	x	x	x	Local, in woods and on moors.
7															Coast.
8						*			1						Rather scarce.
. 9				*		x i	*								
10												1		0	Rare.
11	!	x	*	x	X	1	*	1	1	1	1	x	x	x	Generally planted.
12															Planted in Duff House Policies.
13	1				*	1	*	1				x		*	Often planted in hedges.
ш															
4														- 1	
5	1		*			1	-								Alien.
							1						j		
6															
7			dry		46	1	4			*	x	*		x	Often confused—a thorough revision of the forms in the N.
8			1.3												sion of the forms in the N. of Scotland is necessary.
9	x	x	*			1					0	x	x	x	Local.
0															Introduced.
Ì															
			1											2	
			1												

			Bellie.	Rathven.	Oullen.	Fordyce.	Boyndie.	Banff	Gamrie.	Alvah	King-Edward.	Turriff.	Forglen.	Marnoch.
Polemoniaceae.					-	1								
Polemonium cœruleum, Linn		1			x					1				
Boraginacear.														
Cynoglossum officinale, Linn]	2					0				1			
Symphytum officinale, Linn		3				1	1	1	1	x				*
b. patens, (Sibth.)	.	4			-	I	1	1						
S. tuberosum, Linn		5			1	1	1	1 1	1	1	1 1	1	1	1
S. peregrinum, Ledeb		6							0	-		0	dry	
Trachystemon orientale, D. Don		7		1		1	1	1						
Anchusa sempervirens, Linn	. .	8			×		1 1] !		11				
Borago officinalis, Linn		9		0	0	1	-						*	
Lycopsis arvensis, Linn	1	0	!	1	1	!	1	!	1	1	1	0	4	*
Pulmonaria officinalis, Linn	1	.1						1		ш				
Mertensia maritima, Gray	1	2		1		1	1	0	!					
Myosotis cespitosa, Schultz	1	3	1	x	1	!	1	1	1	1	0	0	*	1
M. scorpioides, Linn	1	4				*	*	1	0	!	0	0	*	1
b. strigulosa, (Reichb.)	. 1	5				1		1						
M. repens, G. & D. Don	. 1	6	1	1	1	1	1	1	1	1	1	1	1	
M. sylvatica, Hoffm	1	7						de semantes		0		Ì		
M. arvensis, Rill	1	.8	1	1	1	1	1	1	1	1	1	1	!	
M. collina, Hoffm	1	9	1				1	0	0	0				
M. versicolor, Sm	2	0	!	!	1		!	1	1	1	0	0	1	
Lithospermum officinale, Linn	2	1						į	1	1	1		1	
L. arvense, Linn	2	2								0				
Echium vulgare, Linn	. 2	3								0				
						ŧ								
			,			1								
										1				

-	_	-									_	-		
Rothiemay.	Cairnie.	Cabrach.	Kirkmichael	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiquhill.	Grange.	Keith.	Botriphnie.	Mortlach.	
					*	*								Alien.
					*	*								
														Scarce.
!	x	*			1		1	1	t	1	1	x	x	Locally common.
														Alien.
														Alien.
				*	*	*					. *		0	
	x		x	*		*	!	!	1	0	1		x	Colonist.
									*					Alien in Duff House Policies.
														Coast
1	x	*	x	x	*	x	x	1	1	-1	1	x	x	
1	x	*		*		*	,	1	i	x	x	x		
١. ١	1	*	0				١.	١.					*	
1	x		x	x	1 *		1	!	1	. 1	x	x		
1	x	*	x	x	1	*	1	1	!	Į.	1	x	x	
											1			Coast—local.
x		*	x	x	1	*	t	1	1	1	x	x	x	
		1			*									
					x *	*							0	
													0	
		1												

			Bellie.	Rathven.	Cullen.	Fordyce.	Boyndie.	Banff.	Gamrie.	Alvah	King-Edward.	Turriff.	Forglen.	Marnoch.
CONVOLVULACEAE.								П						
Calystegia sepium, Br	1	1				*					*			
Convolvulus arvensis, Linn		2											*	
SOLANACEAE.														
Solanum Dulcamara, Linn		3	Į						0	*		x		
S. nigrum, Linn		4		*			0	!		*				
Hyoscyamus niger, Linn]	5				*		1						
SCROPHULARIACEAE.														
Verbascum Thapsus, Linn		6												
V. pulverulentum, Vill		7												
V. Blattaria, Linn		8								3				
Linaria Cymbalaria, Mill		9	.]			. *		1	1	*	x			
L. Elatine, Mill		10												
L. repens, Mill		11												
L. vulgaris, Mill	:	12	-	0	1	* 1	*		0					*
Scrophularia nodosa, Linn] :	13	1	x	1	1	1	1	1	1	1	!	1	1
Minulus Langsdorfii, Donn	1	14	1 [1	1	1]	1	1	!	!	!	!	1	!
var. guttatus, DC] 1	15												
M. moschatus, Dougl		16	1											
Digitalis purpurea, Linn	1	17	1	L	!	1		!	1	1	1	1	1	1
Veronica hederæfolia, Linn		18	i	1			Ī	1	!		0	!		
V. didyma, Ten		19						1		1		0		
V. agrestis, Linn		20	1	Į	1	1	i	1	1	1	0	0	!	X
V. Tournefortii, C. Gmel		21	1		1 1	!	1	1	1	1		0	*	1
V. arvensis, Linn	5	22		x	1	1	1	1	1	!	0	!	1	1

											.1.			
Rothiemay.	Cairnie.	Cabrach.	Kirk:nichael,	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiquhill.	Grange.	Keith.	Botriphnie.	Mortlach.	
3 4 5		9			* * * *	* *				The same same				Casual. Alien. Introduced with Distillery grain.
1	x	*	,	*	*	*							0	Escape.
1	x	*		x	-1		1	1			1		0	Local—near water.
1	x	*		*	1	*	1	1	1	1	x		x	Alien.
dry	x		0				x			1				
	x													
1	x	*	x	x	1	*		1	1	1	1	x	x	Local—nowhere very common.
		dry						1		0		63	x	Colonist—locally plentiful.
								1					ж	Rare.
1	*	*	x	x	*	*	ŧ	1	1	x	x	x	x	(Fairly common on cultivated
t						*	1	1	1			e 2	x	ground. Colonist—locally plentiful.
x	x	dry	x	x	x	*	1	1	x		x	x	x	Common.

			Bellie.	Rathven.	Cullen	Fordyee,	Boyndie.	Banff.	Gamrie.	Alvah.	King-Edward.	Turriff.	Forglen.	Marnoch.
SCROPHULARIACRAE—Contd.								-						** 60 10.
V. serpyllifolia, Linn	***	1	1	1	7	1	1	1	1	1	1	1	1	1
b. tenella, All	***	2												
V. alpina, Linn	000	3												
V. officinalis, Linn		4	T	1	1	1	i	1	1	1	1	1	1	1
V. Chamædrys, Linn	•••	5	1	1	1	1	i	1	1	1	1	1	1	1
V. montana, Linn	000	6	0					t	0	1			1	1
V. scutellata, Linn	***	7	1			1	t	1	1	*		0		
b. hirsuta, Weber	***	8								0				
V. Anagallis-aquatica, Linn.		9									0			
V. Beccabunga, Linn	***	10	!	x	1	1	1	1	1	1	1	4	1	1
Euphrasia officinalis, Linn. agg.	***	11	1	1	1	1	1	1	1	1	1	1	1	i
E. Rostkoviana, Hayne		12	1	1		1	1		1					
E. brevipila, Burn. et Gremli.	***	13				1			0	x	0	0	x	x
× gracilis	440	14												
× scottics	***	15	1 "			en de la companya de								
× ourta	***	16	1	1	ī	1			x					
× atriota	0 to	17												
E. borealis, Townsd	400	18							Q		0			
E. stricta, Host	***	19												
E. gracilis, Fr	0.00	20		1		1			0					
E. scottica, Wettst		21												
E. ourta, Wettst	940	22	der territories	-										
b. glabrescens, Wettst		23												

	_	-			-		-								
Rothiemay.	Cairnie.	Cabrach.	Kirkmichael.	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiquhill.	Grange	Keith.	Botriphnie.	Mortlach.		
1	x	dry	x 0 0	x	1	*	t	2	1	1	1	x	x		Common.
1	x	dry	x	x	1	*	t	1	1	!		x	x	ľ	Common—chiefly in woods.
1	x	dry	x	x	1	*	1	1 1	1	1	1	x	x		Common.
1		dry				*		1	1		1	Province			Local.
dry		*	x	*	!	*		1	1	x			0		In bogs and on marshy ground.
	*	1			B				-	I		Popular	*	l	Apparently rare.
1	х	*	x	x	1	*	1	1 1	1	1	1	x	x		Common.
1	x	*		*	!	*	1	1 1	1	!	1 1	X	x		Common.
		1			X						1	1	*		
x	X		x	x	*			x	х	x	×	x	x		
					*										
					*										
					*										
9															
100				1	*				1						
	x	*	x	x	X				x	x	x	ī	x		
	x	x	x	x	x				x	X	x	x			-
									,				x		
			1										x		
IN.		1													
0		1													
				1											

			Bellie.	Rathven.	Callen.	Fordyce.	Boyndie.	Banff.	Gamrie.	Alvah.	King-Edward.	Turriff.	Forglen.	Marnoch.
SCROPHULARIACEAE — Contd.				refer gar recenses - par			1			1			-	П
Bartsia Odontites, H.ids	•••	1	x	1	1	1	1	1	1	: 1	1		1	1
Pedicularie palustris, Linn		2	î	1		1	1		1	1	0	0	1	1
P. sylvatica, Linn		3	1	1	1	1,	1		1	1	0	0		1
Rhinanthus major, Ehrh		4												
c. apterus Fr		5					1							
R. Crista-galli, Linn		6	1	1	1	1	!	1	1	t	1	ŧ	1	1
R. borealis, Druce		7												
Melampyrum pratense, Linn.		8								0		С		
d. montanum, Johnst		9												
e. hians, Druce	1	0												
M. sylvaticum, Linn	1	11												
LENTIBULARIAGEAE.														
Utricularia vulgaris, Linn	1	2								*				
U. minor, Linn	1	3	1							0		0		
U. intermedia, Hayne	1	4										Q		
Pinguicula vulgaris, Linn	1	15	1	1		1	1		!		0	0		1
Labiatar.		ì												
Mentha rotundifolia, Huds	1	6				x								
M. alopecuroides, Hull	1	17												
M. longifolia, Huds	1	8												4
M. spicata, Linn	1	19								ŧ			*	1
M. piperita, Linn	2	00				x			1	1	0	0		
										-				

-	Rothiemay.	Cairnie.	Cabrach.	Kirkmichael.	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiguhill.	Grange.	Keith.	Botriphnie.	Mortlach.	
ı	!	x			*	1			1	1	×	1		*	On damp ground and by roadsides.
2	1	x	*	x	x	1	*	1	1	ī	1	1	x	x	
3	!	x	*	x	x	1	*	1	1	1	1	1	x	x	
5	!		*	0	x		*		1		1				Casual.
6	!	X) "	x 0	x	1		1	1	1	1	1	x	x	Common.
3			dry	x	x	1						1	x	*	
9			dry	0		*						•			
9				0											
1							*								
															-
2			-									x			
3		x									x			6 Y	-
5	1	x	*	x	x	1	*	i	1	1	1	*	×	x	Common locally.
3									1						
7				0											
3															
3	x	x													
)	x	x			x	*	x		1				x	x	

			Bellie.	Rathven.	Cullen.	Fordyce.	Boyndie.	Banff.	Gamrie.	Alvah.	King-Edward.	Turriff.	Forglen.	Marnoch.
LABIATAR -Contd.														
M. aquatica, Linn		1												
a. hirsuta, (Huds.)		2				*	x			1	0	0	x	
o. citrata, (Ehrh.)		3												
× arvensis, Linn		4	1			1	1	!		1	1	1	1	!
b. paludosa, (Sole)		5									0			
M. rubra, Sm		6									1			
M. arvensis, Linn		7		1	1	1	1	1	!	1	1	0	!	
Origanum vulgare, Linn		8												
Thymus Serpyllum, Linn		9	1	x	1	1	ī	!	!	0		0	0	!
b. prostratum, Hornem		10					*							
Clinopodium vulgare, Linn		11						M						
Nepeta hederacea, Trev		12	1	!	1	*	1	1	1	1	ł	1	1	!
Scutellaria galericulata, Linn.		13												
Siderites montana, Linn		14												
Prunella vulgaris, Linn	***	15	t	1	t	1	1	1	1	İ	1	1	1	1
Marrubium vulgare, Linn.		16												
Stachys palustris, Linn		17		1		x	1	1	0	1	1	0	1	1
× sylvatica	***	18												
S. sylvatica, Linn		19	-1	1	!	. 1	İ	1	1	1	1	1	!	!
S. arvensis, Linn		20			1	1	*		1	0	0		#	
Galeopsis speciosa, Mill		21				*	İ	1		!		1	ī	1
G. Tetrahit, Linn		22	1	1	1	1	1	1	1	1	1	!	1	1
b. bifida, (Boenn.)		23				x			x		x	x	x	1
Leonurus Cardiaca, Linn		24												

-		-					-				-		-	_	-	
	Rothiemay.	Cairnie	Cabrach.	Kirkmichael.	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordigahill.	Grange.	Keith.	Botriphnie.	Mortlach.		
1 2 3 4 5 6 7	1	x	*	0		*	*	x 1	1	1	0	x	x	*		
8	,	x	*	x	*	*	*	1		1	1		X	x		
10			?	x	x					Ů						
11				0		*	*	x								
12	!	x	*	X	*	! !	*	1	1	1	0	x		*		
13						: x	:							0		Introduced with Distillery grain.
15	1	x	*	x	x	1 1	*	1	1	1	1	1	x	x		Common.
16	0					!										
17	1	x		*	*	1	*	x	1	1	1	x	x	X		Local.
19	ŧ	x	*	x	x	1	*	1	1		1	1	x	x		Nowhere common.
20			1			*	*	x	1					0		Colonist—not common.
21	1	x	*	0		x			1	1	1	x		0		Colonist—rather local.
22	1	x	+	x	x	1	*	1	ŧ	1	1	1	x	x		{ Common—denizen?: spread by agriculture.
23	1	x	1		x				x		x	x		x		
24							*									

		Bellie	Rathven.	Cullen.	Fordyce.	Boyndie.	Banff.	Gamrie.	Alvah.	King-Edward.	Turriff.	Forglen.	Marnoch.
LABIATAE -Contd.													
Lamium amplexicaule, Linn	1		1	1	*	1	1	t	0	0	0		
L. molucellifolium, Fr	2			1	1	1	1	1	*	1	1	1	
L. purpureum, Linn	3		1	1	1)	1	1	*	İ	1	1	1	
L. maculatum, Linn	4		0	x			1	x	1	0	0		
L. album, Linn	5			1	*	*	1		1	0			
Teucrium Scorodonia, Lann	6	1						0	1 3		0		
Ajuga reptans, Linn	7			1	*	*	1	1	1	0	0	*	1
PLANTAGINACEAE.													
Plantago major, Linn	8	1	1	1	1	1	1	1	1	1	1	1	1
P. media, Linn	9						ŧ					*	
P. lanceolata, Linn	10	1	1	1	1	1	1	1	1	1	1	1	1
P. maritima, Linn	11	1	1	1	1	1	1	İ	1	Ī	1		1
P. Coronopus, Linn	12	1	i	1	1	I	1	1					
Littorella uniflora, Aschers	13			x	x				0				
ILLEGEBRACEAE.													
Scleranthus annuue, Linn	14	1	1	x	x	1.	1	1	0	1	0	*	*
CHENOPODIACEAR.													
Chenopodium album, Linn	15	h			*	*	1	1	İ	!	0		1
b. viride, (Linn.)	16				x	T						x	x
c. paganum, (Reichb.)	17		x	x	x	x	x					x	
C. Bonus-Henrieus, Linn	18							0	0	1	0		*
Atriplex patula, Linn	19		1	1	1	1	t	İ	1	1	0	X	
b. erecta, (Huds.)	20							0		0			
A. haetata, Linn	21			x		×	x						
										1			

	gwaws010		-										_		
	Rothiemay.	Cairnie.	Cabrach.	Kirkmichael.	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiquhill.	Grange.	Keith.	Botriphnie.	Mortlach.	
1			*			1	x		1	1	0			×	Frequent.
2				x		*	*		1	1	t				Colonist—not very common.
3	1	x	*	x	X	1	*	ī	1	!	1	x	x	I.	Colonist—common.
4		x			*				1						Escape.
5			*			*			1						Rare.
6					*	1	. *	1				#		×	
7	dry	x	dry		x	t	*	. 1	1	!	x	1	x	x	Locally common in woods.
8	1	x	*	x	x	1	*	1	1	1	1	i	x	x	Common.
9						*			x						Often introduced in lawn seed.
10	1	x	*	x	x	i	*	1	1	1	. 1	1	x	x	Common.
11	1	x						1	1	1	1	x		0	Common.
12															Common—on coast.
13							x								
										,					
14		x		x	x	*	*	1		t	0			0	Frequent.
15	1	x			*	*	*	.1		*	×	x	x	*	Colonist.
16	x														
17									x						
18			*			*	*					*		0	
19					*	*	*	1	1		×	*		x	
20			1												
21			1				*								

			Bellie.	Rathven.	Cullen.	Fordyce.	Boyndie.	Banff.	Gamrie.	Alvah	King Edward.	Turriff.	Forglen.	Marnoch.
HENOPODIACEAE — Contd.														
A. Babingtonii, Woods	***	1			t	!	!	!	1	ш				
b. virescens, Lange		2				x	x							
A. calotheca, Fr	***	3					¥ 9							
A laciniata, Linn	***	4					1							
Salsola Kali, Linn		5			0	1	1	1		5				
OLYGONACEAE.				,		,								
Polygonum Convolvulue, Linn.	***	6	1		1	1	1	1	1	1	!	1	1	1
P. aviculare, Linn	***	7	1	1	1	!	1	1	1	!	1	1	1	
P. equisetiforme, Sibth. & Sm.	***	8												
P. Hydropiper, Linn	***	9						1	0	1	*			
P. Persicaria, Linn	***	10	1	1	t	1	1	!	1	1	1	1	1	
P. lapathifolium, Linn	•••	11		x		-			0	0	0	0		
P. amphibium, Linn	***	12	1	-			1	1	0	0	0	x		
b. terrestre, Leers		13		×		1	1	1	1	1	x	x	1	
P. Bistorta, Linn		14			I		0	1:				x	*	
P. viviparum, Linn	0.00	15	ĺ	-	Ī	1	1	0		0		0		
Fagopyrum sagittatum, Gilib.	***	16		Total Control		1		1 1		1				
Oxyria digyna, Hill	***	17					Miles or the state of the state							
Rumex conglomeratus, Murr.	400	18	1	-			Mary Arealand		1	1				
R. sanguineus, Linn	***	19				×	x		1	x				
b. viridis, (Sibth.)	***	20		The state of the s					0					
						1 1		1					1	

	Rothiemay.	Cairnie.	Cabrach.	Kirkmichael.	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiquhill.	Grange.	Keith.	Botriphnie.	Mortlach.	
1 2 3 4 5															Coast. Sandy coast—very rare. Sandy coast—very rare.
6	dry	x			x	1	*	Ī	1	1				x	Colonist.
7	i	x	*	x	x	!	*	1	1	!		x	·x	х	{ Common—var. arenarium occurs on coast.
8						x		х							33.00020
9					*			x							Rare.
10	1	x	*	x	x	1	*	1	!	1	2	x	x		Common.
11						x	*							x	
12	dry										0			0	Not so common as var. terrestre.
13	dry	x				ž	x	x		1	х	x		x	Frequent.
14				0		*	*			!		*			Denizen.
15			dry	x	x	*	*		1		1	1		0	On limestone at the lower eleva-
16															Casual.
17				x	x	x								0	
18			*		*	*	*								Frequent on banks of R. Deveron.
19						*							1	*	
20					*				,	u					1
21	:	x	dry	x	x	*		1	1	x	x	x	x	x	
100000															

		Bellie.	Rathven.	Cullen.	Fordyce.	Boyndie.	Banff.	Gamrie.	Alvah.	King-Edward.	Turriff.	Forglen	Marnach
POLYGONACEAE -Contd.								-		-			
R. crispus, Linn	1			1	. 1	*	1	1	1	1	!	1	
× domesticus	2												x
× obtusifolius	3		1	x	х	×	!	х	0	0	0		
× conspersus	4										x		
R. domesticus, Hartm	5	1		1	1	1	1	!	!	1	x	!	
× obtusifolius, (conspersus, Hartm.)	6				x	x		0	0	0	0	!	۵
× conspersus	7						х	х	x	x			
R. Hydrolapathum, Huds	8				*	*		0					
R. alpinus, Linn	9								*		0	*	*
R. Acetosa, Linn	10	1	1	1	1	1	1	!	1	1	!	!	
R. Acetosella, Linn	11	1	.1	1	1	1	!	!	1	1	!	!	
Phymrikagrae.													
Daphne Mezereum, Linn	12												
Elabagnaceae.													
Hippophae rhamnoides, Linn	13	,		1	1		!	!				*	
EUPHORBIAGEAE													
Euphorbia Helioscopia, Linn	14	1	1	1	1	1	i	!	!	1	0	!	
E. dulcis, Linn	15						17						
E. Peplus, Linn	16					*	1						
E. exigua, Linn	17					0							
E. Cyparissias, Linn	18			my.					*				
Buxus sempervirens, Linn	19	,		-			1					1	
Mercurialis perennis, Linn	20	1			1	1	1	1	1		1	1	
			and the second										

								-							
	Rothiemay.	Cairnie.	Cabrach.	Kirkmichael	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiquhill.	Grange.	Keith.	Botriphnie.	Mortlach.	
1 2 3	* 3	x	*	x	x	*	*		! *	E	x	х	x x x	х	
5 7	1	х	* x	x	x	x		x	1	!	t x	x	x	x	
9 10 11	!	x	*	x	x	1 1	*	!	!	1 1	x 1	1	x x	x	Relic of cultivation? Common. Common.
12						*									
14	!	x	*	x	x		*	İ	! x	t	1	*	x	*	Colonist, in fields and gardens. Seen once in Duff House Policies Colonist, in gardens.
17 18 19 20		x	*	x	x	1	*	x			0	1	x	x	Planted. Locally common.

		Bellie.	Rathven.	Cullen.	Fordyce.	Boyndie.	Banff.	Gamrie.	Alvah.	King-Edward.	Turriff.	Forglen.	Marnoch.	Inverkeithnie.
URTIGACEAE.														
Ulmus glabra, Huds	1	1	1	x	1		1	1	1	1	1	1	x	3
U. campestris, Linn	2				*	*	1		1					
Humulus Lupulus, Linn	3					i			*		0		*	
Urtica dioica, Linn	4	1	1	ī	1	1	1	1	1	1	1	1	1	1
b. angustifolia, Wimm. & Grab.	5								0					
U. urens, Linn	6	1	!	1	t	1	1	i			0	1	*	
Parietaria ramiflora, Moench	7					1	I							
Cannabis sativa. Linn	8						0							
ATRICACEAE.														
Myrica Gale, Linn	9				*				0		1		0	
CUPULIFERAE.														
Betula alba, Linn	10	1	t	1	t	*	1	0	İ	0	1	1	1	x
B. tomentosa, Reith. & Abel	11		x					0					x	
B. nana, Linn	12													
Alnus rotundifolia, Mill	13	i		î	1	1	1	0	ī	1	1	1	1	x
Carpinus Betulus, Linn	14	1							1			1		
Corylus Avellana, Linn	15						1	0	1	0	0	1	1	x
Querous Robur, Linn. agg	16	1	0	1	*	*								
a. pedunculata, (Ehrh.)	17		1	1	1	i	1	1	1	1	0	1	1	x
o. sessiliflora, (Salisb.)	18	1		1										
Castanea sativa, Mill	19								0		0			
Fagus sylvatica, Linn	20	1	1	1	1	1	1	1	1	1	1	1	1	x

	Rothiemay.	Cairnie.	Cabrach.	Kirkmichael.	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiquhill.	Grange.	Keith.	Botriphnie.	Mortlach.	
1 2 3 4	1	x x	*	x	x	* !	**	1	1	1	1	1	x	*	Generally planted. Planted. Naturalised.
5 6 7 8	1	x		x	х	x	*	Gara 6	ж	1	0	*		x	On old Castle at Boyne.
9	1	x	x	x	x	1 *	*	dove		1	x !	1	x	*	In bogs.
11 12 13	1	x	46	0 x	I	!	*	t	î	1	1	x	x	X *	Near water.
15 16 17	x !	x	*	x	* *	*	*	x 1	0	1	0 0 1	91	x	x *	
18 19 20	x 1	x		x	X	1	•	1 1	I	1	ī	*	x	x	
			The Carlotte and the Ca												

					Bellie.	Rathven.	Cullen.	Fordyce.	Boyndie.	Banff.	Gamrie.	Alvah	King-Edward.	Turriff.	Forglen.	Marnoch
SALICACEAE.		-								-						T
Salix pentandra, Linn	1.			1					1			0				
S. triandra, Linn.	,		,	2												
S. fragilis, Linn.		***		3			x	*	!		1	1	0	0		
Salix alba, Linn			,	4			x	*	*		1	!	0	0		
× triandra	,			5											x	
S. purpurea, Linn.				6		x		x	1			0	0		x	X
S. viminalis, Linn.		***		7		х	x	X	!		1	0	0	0	!	*
S. caprea, Linn.				8							0	*	x	0		
× phylicifolia				9												
S. aurita, Linn.				10				x			0	0	0	۵	x	1
× cinerea				11							!?	1?				
× phylicifolia				12												
x repens			• • •	13												
S. cinerea, Linn.				14		!	1	1			1	!		0	!	!
S. phylicifolia, Sm.	***			15				*	*							x
S. repens, Linn.				16			1	1	1	1	1			0		
S. herbacea, Linn.				17												
Populus alba, Linn.	0	***		18				*	*	1	1				*	
P. tremula, Linn.	• • •			19				x				1	0?	x	*	*
P. nigra, Linn.				20	1	1	1			1	1			0	1	
MPETRACEAE.																
Empetrum nigrum, Lin	nn.			21		ī	1	ī	Ī	1	1	1	0	0	1	!
ONIFERAE.																
Juniperus communis, 1	Linn.			22		x	0					0				x

ACCRECA VETER		-	manative state	-		-							D-010-000-0		
	Rothiemay.	Cairnie.	Cabrach.	Kirkmichael.	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiquhill.	Grange.	Keith.	Botriphnie.	Mortlach.	
1		x													
2		x													Planted.
3	X	x			x	*	x	x	x		×	x	x	x	Planted.
4		X			*				x			x	*	*	Planted.
5						*									
6	X		*					x	X				,	x	
1	×	X	*			X	*	X	X	х	х	x	X	X	
		х		x	X	x	Î					A			
9	X	x	x	0 x	x	x	x	x	x	1	x	x	x	x	
11	Δ	Δ.			_	A	A.		A	1?		A			
12				0 .						••			Comments of the state of the st		
3				x						1		x			
14	!	x	x	x	x				1	1	1	x	×	х	
1 15				x							Ť		6		
16	1	x	х	x	x	x				1	1.	x	x	X	
17			dry	x		dry									
18						*		ī					1		Planted.
19	x		dry	x		*	*			*		×	1		
20	1					*	x	i	1		1		r.	×	Planted.
21	!	x	dry	x	x	1	*	!	1	1	1	1	x	x	Common on heaths.
22	1	x	dry	x	x	*	*	x		1	1	*		*	

		Bellie.	Rathven.	Cullen.	Fordyce.	Boyndie.	Banff.	Gamrie.	Alvah.	King-Edward.	Turriff.	Forglen.	Marnoch.
CONIFERAE -Contd.													
J. sibirica, Burgsdorf	1		1?	1	17			1					
Taxus baccata, Linn	2	1					1		î			1	
Pinus sylvestris, Linn	3	1	1	1	1	1	1	1	1	1	1	1	1
Picea excelsa, Link	4		1		x			1	Ī	x	x	1	1
P. nobilis, Loud	5		1	I			1						
Larix europoea, DC	6	0	1	1	x	0		1	1	x	1	î	1
Abies pectinata, DC	7								1	x	x	1	*
HYDROCHARIDACRAE.													
Elodea canadensis, Michx	8	1					1		1	0	1	1	1
ORCHIDACEAE.	1.												
Listera cordata, Br	9	1	1		1	*			1	1	0	*	
L. ovata, Br	10	1	1										
Spiranthes spiralis, Koch	11		-										
Goodyera repens, Br	12	1	1 1	1	*	1	1		1	Ī	0	*	1
Helleborine atrorubens, Druce	13	1											
Orchis mascula, Linn	14		1	1	*			1	0				
O. incarnata, Linn	15					1							
O. latifolia, Linn	16	1	1	1	*	1	1	1	t	i	0	*	*
O. maculata, Linn	17	1 1	1 1		1	1	1	1	i	0		*	1
× latifolia	18					1							
O. ericetorum, Linton	19												
Habenaria conopsea, Benth	20		1.1		*	1	1	1			0		1
H. albida, Br	21		1						0				
H. viridis, Br	22		1			1			0				

-	o the GRUPAN	a according	-9-1-0-1-0-0	e a combinati		-			dhaman a	p.A.m.m.		D D	NAME AND ADDRESS.	Problems on the	
	Rothiemay.	Cairnie.	Cabrach.	Kirkmichael.	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiquhill.	Grange.	Keith.	Botriphnie.	Mortlach.	
1 2 3 4 5 6 7	1 1 1	x	**	x x x	* x x	* 1 x	* * *	1 1	· ·	2 2	1 3	t x	x x x	x x	
9 10 11			dry	*	*	*	*	0	t	1	1	t		0	Nowhere common. Scarce. I have seen no specimen of this plant.
12	1		*			1	*	1	!	1	1	1	×	G	In fir woods and on moors.
13			*	0		*									
14 15			1			-			1	1	!				Scarce.
16				0	x	*	*	1		1	1	x	x		Cource
17	!	x		x	x	*	*	1	!	1	1	1		x	
18 19 20 21		x	dry	0	*	99	*		1	1 1 1	1	1		•	On Knock Hill—very doubtfully distinct as a species.
22										1	1	x		0	Rare.

H. bifolia, Br H. virescens, Druce RIDACEAE. Iris Pseudacorus, Linn Crocus nudiflorus, Sm AMARYLLIDACEAE. Narcissus Pseudo-Narcissus, Linn Galanthus nivalis, Linn LILIACEAE. Ruscus aculeatus, Linn	1 2 3		1										
H. virescens, Druce IRIDACEAE. Iris Pseudacorus, Linn Crocus nudiflorus, Sm AMARYLLIDACEAE. Narcissus Pseudo-Narcissus, Linn Galanthus nivalis, Linn LILIACEAE.	2		1										
Iris Pseudacorus, Linn Crocus nudiflorus, Sm AMABYLLIDACEAE. Narcissus Pseudo-Narcissus, Linn Galanthus nivalis, Linn	3				1	1	1		i				1
Iris Peeudacorus, Linn Crocus nudiflorus, Sm AMARYLLIDACEAE. Narcissus Pseudo-Narcissus, Linn Galanthus nivalis, Linn LILIACEAE.	Ī												
Crocus nudiflorus, Sm AMARYLLIDACEAE. Narcissus Pseudo-Narcissus, Linn Galanthus nivalis, Linn LILIACEAE.	Ī												
AMARYLLIDAOBAB. Narcissus Pseudo-Narcissus, Linn Galanthus nivalis, Linn LILIAGRAB.	I		:	0	*	1	!	1	1	0	0	*	*
Narcissus Pseudo-Narcissus, Linn Galanthus nivalis, Linn LILIACEAE.	4						1						
Galanthus nivalis, Linn													
LILIACEAE.	5		1			0	1		!	x		*	
	6					1	1					*	
Durana autonius Timo													
Ruscus aculeatus, Linn ,	-7			x									
Polygonatum multiflorum, All	8		1				1						
Allium vineale, Linn	9						1						
A oleraceum, Linn	10												
A. ursinum, Linn	11				1	1							
Scilla verna, Huds	12		0			1	1	1					
S. non-scripta, Hoffmgg. & Link	13	i	0			0	1	1	1	0			
Lilium spp	14	į					1						
Ornithogalum umbellatum, Linn	15			x			0					*	
Narthecium ossifragum, Huds	16	1	1		1			1		0	0		!
Tofieldia palustris, Huds	17												
Paris quadrifolia, Linn	18												
UNCACEAE.										1			
Juneus bufonius, Linn	19	1	1	1	1	1	1	1	1	1)	t	1	1
J. trifidus, Linn	20												
										1			

												i ulti-			
	Rothiemay.	Cairnie.	Cabrach.	Kirkmichael.	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiquhill.	Grange.	Keith.	Botriphnie.	Mortlach.	
2						*	*		1	1	?	1			
3		x							1	ŧ	x	x	x	*	Denizen. In Duff House Policies.
6						•						46			Alien.
8 9															Alien. Very rare.
10 11 12 13 14				0						Í				*	Rare. On coasts—rare. Rare. Planted in Duff House Policies.
15 16 17	*	x	dry	x 0	x	, !	*	. 1	1	1	1	Ī	x	ж	Common on moors.
18 19 20	финф	x	dry	x	x	1	*	1	ŧ	1	ŧ	x	x	x	Common.—Var. fasciculata occurs in Turriff (Trail).

		Bellie.	Rathven.	Oullen.	Fordyce.	Boyndie.	Banff.	Gamrie.	Alvah	King-Edward.	Turriff.	Forglen.	Marnoch.
JUNCACEAE-Contd.								-	-				
J. squarrosus, Linn	1	1	1	1	1	1	1	1	1	0	1	1	1
J. Gerardi, Lois	2	1	1	1	1	1		1					
J. balticus, Willd	3	1											
J. effusus, Linn	4	1	1	1	1	1	1	1	1	1	ŧ	1	1
J. conglomeratus, Linn	5	1	1	1	1	1	1	1	1	1	ī	1	1
J. maritimus, Linn	6		0			0							
J. bulbosus, Linn	7	1		1	1	1	1	1	0	0	0		4
J. articulatus, Linn	8	1	1	1	1	x	1	1	1	0	!	1	1
J. sylvaticus, Rich	9		1	1	1	1	1	1	1	1	0	!	1
J. biglumis, Linn	10												
J. triglumis, Linn	11	- 1	. 1							-1			
Luzula pilosa, Willd	12	1	1	1	x	1	1	0	1	0	0	1	*
L. sylvatica, Gaud	13	1	1	1	1	1	1	1	1	1	t	1	1
L. arcuata, Wahl	14		1										
I. spicata, DO	15												ш
L. campestris, DC	16		-			*.		0	0	0	0		
L. erecta, Desv	17											1	
a. umbellata'	18	I	1	1	1	1	1	1	1	0	0		1
b. congesta	19	1 [1	1	1	1	1	İ	1	1	0		1
Турнасвав.													
Typha latifolia, Linn	20								dry	1	0	1	
Sparganium erectum, Linn	21	1		1	î	1	1	0	1	1	1	1	1
S. simplex, Huds.	22	1 1			I	?			0				
S. affine, Schnizl	23		1						0			x	
													1

	-														
	Rothiemay.	Cairnie.	Cabrach.	Kirkmichael.	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiquhill.	Grange.	Keith.	Botriphnie.	Mortlach.	
1 2	1	x	*	x	х	Great Control of the	*	Î:	1	\$			x	x	Common on moors. Fairly common in salt marshes.
4	1	x	*	x	x		*						-1		Very rare.
	1					1 *	*	1	1	11	1	1	X	X	Common.
5	1	X	X	X	X '			1	1	1]	1		x	x	Common.
7	1	x		x	x	x	x	X	1	x	x			J	A very delicate form seen in Duff
8	!					,						X	X	x	House Woods, has been named var. pygmaeus.
9		X	X	X	X T	! x	X	x	!	21	1	X	X.	×	
10	:	A	A	0	X .	X	x	X	1	11	1	X	x	x	
10				0		1								1	
12				X	x	*	x	.1		· x		1	x	x	Not and a second
13	1	x	*	Α.	*	!	*	!	1		2	1	x	x	Not very common. Common especially in woods.
14	•	^		x		1		!	1		3	1	^		Common especially in woods.
15				X		x						A plant of		0	
16			*	A	*	*	*								
	*				*						0		1		
17			*					1					=	x	Frequent.
18	1	x	*	X	X	1		-	1	1	1			1	
19,	1	x		X	X	1			1	1	1	!	=		Frequent.
20					1	1		-	1				1		Introduced.
21	1	x								1	x	x	x		Rather local.
22	•	X						1					-		Scarce.
23		x				-					x	x		1.	Scarce.
20		4						1							
						-		-						***	

		Bellie.	Rathven.	Cullen.	Fordyce.	Boyndie.	Banff	Gamrie.	Alvah.	King-Edward	Turriff.	Forglen.	Marnoch.
TYPHACEAE —Contd.													
S. minimum, Fr	. 1										0		
ARACRAE.													
Arum maculatum, Linn	. 2		0			1	1						
LEMNACEAR.													
Lemna minor, Linn	. 3	1			*	1		1	0			*	*
L. trisulca, Linn	. 4												
ALISMACEAE.													
Alisma Plantago-aquatica, Linn	. 5						1	î	0	0			
NAIADACEAE.													
Triglochin palustre, Linn	. 6	t	1	1	1	1		1			0	*	9
T. maritimum, Linn	. 7			1	i	1	1	1					
Potamogeton natane, Linn	. 8	1		1	1	1		0	0	x	0	1	!
P. polygonifolius, Pourr	. 9	1	4		1	1	1	1	1	1	0	1	
P. alpinus, Balb	. 10								0		0		
P. lanceolatus, Sm	. 11								0				
P. lucens, Linn	. 12						1		0		0		
P. perfoliatus, Linn	. 13			1	1		1		1	0	1	1	
P. crispus, Linn	. 14	}	Discount of the last						1		0	ī	!
P. pusillus, Linn	15		-	-	100				0				
Ruppia rostellata, Koch	. 16		1	-		1	0						
Zostera marina, Linn	. 17		1	1	1	1	1	t					
CYPERACEAE.	1		1			1	1						
Eleocharis palustris, Roem. & Schult	. 18	1	1 1	1	×	1	1	t	1	0	f	ŧ	
E. uniglumis, Schultes	. 19		x			1							

			*************	participal of	water-en-g			dan territoria	entrocomer		-		termina del dischere		potreio s-espere	
	Rothiemay.	Cairnie.	Cabrach.	Kirkmichael	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford,	Ordiquhill.	Grange.	Keith.	Botriphnie.	Mortlach.		
1		X				x	x [x	x i	x			Alien.
3 4 5	1		*		*		*				1	1		0		Local. Very rare.
6		X	dry		x	1	26	x	1	1	x	1 x	x	x		In marshes—local. Coast. In pools and slow-running water.
9 10 11 12	1	x		0	x	1	х			1	1	x	x	0		In marshes.
13 14 5 16	1				,									0		In R. Deveron, frequent.
7 8 9	dry	x			#	x	*	1	9		x	x	x	X		Washed in on rocks near Banff Harbour and near Gardenstown. Common. Apparently scarce but probably overlooked.
			-													

		Bellie.	Rathven.	Cullen.	Fordyec.	Boyndie.	Banff.	Gamrie.	Alvah	King-Fdward.	Turriff.	Forglen.	Marmoch
PEBACEAE -Contd.													Ī
Scirpus pauciflorus, Ligtf	1	1	•	7	1	1		1					
S. caespitosus, Linn	2		1		!	1		0	1	0	0	x	
S. setaceus, Linn	3								0			*	
S. Tabernaemontani, Gmel.	4	0	0										
S. sylvaticus, Linn	5				1	1	!		0			1	
S. rufus, Schrad	6	-		×	1	i	0						
Eriophorum vaginatum, Linn.	7		1		1			1	1	0		*	•
E. angustifolium, Roth	8	1	1	x	1	t		1	2	0	0	*	
Rhynchospora alba, Vahl	9									0			
Scheenus nigricans, Linn	10	1				t							
Carex dioica, Linn	[11	1							0				
C. pulicaris, Linn	12	1	1		!	!		1	0	0	0		
C. pauciflora, Lightf	13												
C. incurva, Lightf	114	1.1					0						
C. arenaria, Linn	15	[!	x	î	1	1	1	1					
C. diandra, Schrank	16												
C. paniculata, Linn	17	1	x										
× remota	18	0											
C. vulpina, Linn	19			1	?1								
C. muricata, Linn	20												
C. echinata, Murr	21	1	1		1	1		!	1	0	0	1	
C. remota, Linn	22			1			ŧ					1	
C. curta, Good	23	1	1			1		1	:	0		1	
b. alpicola, Wahl	24								0				
						•							

	Rothiemay.	Cairnie.	Cabrach.	Kirkmichael.	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiquhill.	Grange.	Keith.	Botriphnie.	Mortlach.	
2 3		x x x	dry	x	x	x	*	t x	1	1	1	x x	x	x 0	Locally common. On moors.
5 6 7			dry	x	x	!	*	1	1	Proc. Pronton		the second	x	*	Rare. Local on coast. Not so common as the succeeding sp.
9 10	!	х	x	x	x	1	*	1	1	1	The second secon	t x	X	0 0	Rare
12 13		x		0	x .	1.	*	1.	1	2	1.	1	X .	*	Rare. Locally common. {Very rare—the plant seen in Bellie has received the varietal name.
15 16 17		x x	1 T T T T T T T T T T T T T T T T T T T									x	Xe	x	Sandy coasts. "Locally plentiful."
18 19 20							•								Only seen once.
21 22 23 24	х	x	dry *	x	*	1:	x	1:	1	2.4	2 Mary State of the State of th	1	X	*	Common.: Very rare. Scarce.

						Bellie.	Rathven.	Cullen.	Fordyce.	Boyndie.	Banff.	Gamrie.	Alvah.	King-Edward.	Turriff.	Forglen.	Marnoch.
YPERA	CEAE.—Contd.																-
C.	leporina, Linn.	•••	,		1	1	1		x	1	!	1	1	1	0	1	×
C.	atrata, Linn.			•••	2												
C.	rigida, Good.			***	3												
C.	aquatilis, Wahl.		•••	***	4	1							*		0	1	
C.	Goodenowii, Gay	•••		•••	5	1	i	1	1	1	1	1	1	0	0	11	1
	b. juncella, Fr.	• • •	•••	•••	6												
C.	flacca, Schreb.	•••		•••	7	1	1	1	1	1		1	1	0	0	1	!
C.	rariflora, Sm.	•••		•••	8												
C.	pilulifera, Linn.		•••	•••	9				x	,		1	1				x
O.	caryophyllea, Lat	ourr.	•••	•••	10										0		
C.	pallescens, Linn.	•••	***		11			1									
C.	panicea, Linn.			***	12	1	i	1	1	1	1	1	1	0	0	ī	!
C.	capillaris, Linn.	***		•••	13								1	1			
	pendula, Huds.	• • •	•••	•••	14							0			0		
C.	sylvatica, Huds.			•••	15								1			3	
C.	helodes, Link.	•••		•••	16						*			1			1
C.	binervis, Sm.			•••	17	1	1	1	1	x		0	1 -	0	1	1	1
C.	distans, Linn.	•••			18			1	1	t		1					
	× extensa		•••		19			3		1 .							
C.	fulva, Host.	***		***	20			1	1	1		0		0			
~	extensa, Good.				21			x		1		0					

money	PURE OF A				Pr-01-2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		-		-						
	Rothiemay.	Cairnie.	Cabrach.	Kirkmıchael.	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiquhill	Grange.	Keith.	Botriphnie.	Mortlach.	
2	!	x	dry	x	x		*	ž	*	1	1	×	x	*	Common.
3				x		x	x	1		-				0	Rare.
5 6	1		dry	x	x	1	*	9	i	1	1	2	x	x	Common.
7 8	1	x	dry	x 0	x	ж	x	1	9-0	1	1	1	x	x	Common.
9	X	x	x	x 0	x	x			on the free splitters in prignancy , a sense	1	1	x	x	x	Local—var. longebracteata occurs with type.
11 12	!	x	dry	0 x	*	1	*	Ī	1	1 1	1	1	x	x	Common.
13 14				0											
15 16				0		x			1				1		Rare.
17 18	ţ	x	dry	x	x	*	*	ž	1	1 [1	1	x	x	Common. Coasts.
19 20	!	x		0		x	x			1		x	4) Target market	x	Rather local.
21								and the second second							Coasts.
			-					a management of the second							

CYPERACEAE — Contd. C. flava, Linn			-		King-Edward	Turriff.	Forglen	Marmorh
X fulva		1						ı
b. lepidocarpa, (Tausch.)		1	1		0	0		
X fulva								
C. Oederi, Retz								
× fulva 6 0 d. œdocarpa, And. 7 C. hirta, Linn. 8 0 C. acutiformis, Ehrh. 9 C. riparia, Curt. 10 * C. inflata, Huds. 11 ! ! ! 0 HRAMINEAE. !								
d. œdocarpa, And 7 C. hirta, Linn 8 C. acutiformis, Ehrh 9 C. riparia, Curt 10 C. inflata, Huds 11 ! ! ! ! ! 0 HRAMINEAE. Phalaris canariensis, Linn 12 ! ! ! ! ! ! P. arundinacea, Linn 13 ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! Anthoxanthum odoratum, Linn 14 ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! A. pratensis, Linn 16 ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! Milium effusum, Linn 17 0								
C. hirta, Linn 8 C. acutiformis, Ehrh 9 C. riparia, Curt 10 * C. inflata, Huds 11 ! ! ! ! 0 RAMINEAE. Phalaris canariensis, Linn. 12 ! ! ! ! P. arundinacea, Linn. 13 ! ! ! ! ! ! ! ! Anthoxanthum odoratum, Linn. 14 ! ! ! ! ! ! ! ! Alopecurus geniculatus, Linn. 15 ! ! ! ! ! ! ! A. pratensis, Linn 16 ! ! ! ! ! ! ! Milium effusum, Linn 17 0		0	0	- 1				
C. acutiformis, Ehrh 9 C. riparia, Curt 10 * C. inflata, Huds 11 ! ! ! ! ! 0 RAMINEAE. Phalaris canariensis, Linn 12 ! ! ! ! P. arundinacea, Linn 13 ! ! ! ! ! ! ! ! Anthoxanthum odoratum, Linn 14 ! ! ! ! ! ! ! Alopecurus geniculatus, Linn 15 ! ! ! ! ! ! ! Milium effusum, Linn 16 ! ! ! ! ! ! !						1		
C. riparia, Curt		0	0	-		1		
C. inflata, Huds				1		1		
Phalaris canariensis, Linn 12 ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !	1			1				
Phalaris canariensis, Linn. 12 ! ! ! P. arundinacea, Linn. 13 ! ! !! !! !! !! Anthoxanthum odoratum, Linn. 14 ! !!!!!!!!!! Alopecurus geniculatus, Linn. 15 !!!!!!!!!! A. pratensis, Linn. 16 !!!!!!!!!! Milium effusum, Linn. 17	t	0	0	1	0	0	1	
P. arundinacea, Linn. 13 ! </td <td></td> <td></td> <td></td> <td>1</td> <td></td> <td>1</td> <td></td> <td></td>				1		1		
Anthoxanthum odoratum, Linn. 14 ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !	*			*		1		
Alopecurus geniculatus, Linn 15 ! ! ! ! ! ! ! ! ! !	1	1	1	1	1	1	1	
A. pratensis, Linn 16 ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !	1.1	!	1 /	1	1	!	1	
Milium effusum, Linn 17	1	1	1	1	t	1		
	1	1	1	1	1	1	1	
Phleum pratense, Linn 18 x ! * ! !								
	!	1	1	1	1	1	1	
b. nodosum, (Linn.) 19	0	0	0	0	0	0		
P arenarium, Linn 20								
Agrostis canina, Linn 21 * * 0		0)		0	0	X	

		- Contraction	openene.	ф-гозивано -		-	-	-	-		plantación	de-			
	Rotniemay.	Cairnie.	Cabrach.	Kirkmichael	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiquhill.	Grange	Keith.	Botriphnie.	Mortlach.	
1 2 3 4	x	x	dry	x 0 0 x	x	and the state of t	**	400	1	1	1	x	X	*	Common.
6 7 8 9				0		***************************************	The second secon	To the desirement of the limited of			1000			0	
10 11 12		x	dry		*		***		The state of the s	1	×	*	x	x	Rare. Locally common. Casual.
13	!	x	*	0	36	1	*	1	1	1	t	1	X	X	Common by streams.
14	1	x	*	x	× ,	1	*	1	1	1	1	1	х	X	Common.
15	!	x		X	x	1	*	!	1	1	1	1	х	X	Common.
16	!	x	*	x	x	1	*	1 1	1	1	1	1	x	×	Common.
18 19 20	!	x		x	x	*	Policy	l t	and the second	*	×	1	x	E	
21	dry	x	x	x	x	₩	***************************************	(many)	date of	1	1	x	x	x	Frequent.

			Bellie.	Rathven.	Cullen.	Fordyee.	Boyndie.	Banff.	Gamrie.	Alvah.	King-Edward.	Turriff.	Forglen.	Marnoch.
	GRAMINEAE -Contd.													
1	A. alba, Linn	1	!	1	1	1	*	1	!	1	1	0	1	X
	b. stolonifera, (Linn.)	2		1	x				0		0	0		
1	d. coarctata, (Hoffm.)	3		1								i		
	A. tenuis, Sibth	4	1	11	1	!	1	!	1	!	1	1	!	X
	b. pumila, (Linn.)	5		1		!		x	1		0	0		
	Ammophila arenaria, Link	6	1	x		1	1	1	1					
	Aira caryophyllea, Linn	7	1	1	1	1	1	1	1	!	1	1	1	1
1	A. praecox, Linn	8	1	1	1	1	1	1	!	1	1	1	1	
	Deschampsia caespitosa, Beauv	9	1	11	1	1	1 1	1	1	1 1	1	1	!	1
	D. alpina, Roem. & Schult	10	1		1		1							
	D. flexuosa, Trin	11	1	1	1	!	1	1	1	1	!	!	!	!
Town a little of	Holcus mollis, Linn	12		x	x	1			1	0	!	0	X	X
1	H. lanatus, Linn	13	1	1	1	1	!	1	1	1	1	1	1	!
	Trisetum flavescens, Beauv	14		1										П
1	Avena pubescens, Huds	15		1			1 1		1					п
	A. pratensis, Linn	16			0	x								
	b. alpina, (Sm.)	17		1										1
1	c. longifolia, (Parn.)	18												
I	A. strigosa, Schreb	19		1		!	x		0		0			X
Ī	A. fatua, Linn	20		1		*	*							П
	A. sativa, Linn	21								1				
-	Arrhenatherum elatius, Mert. & Koch	22		1	-			-	1	1		x		
	b. bulbosum, Presl	23	1	1	1	1	1	1	!	!	1	1	1	1
San May 10	Sieglingia decumbens, Bernh	24		1	1	1	1	1	1		0	0		
A special reserves		-												
and and						1		1				1		

-	0 4 12 1 2 1 1 1	-	20000000	percen		-	-	- Section States		in combination of	territation contra	Contraction of the last			
	Rothiemay.	Cairnie	Cabrach.	Kirkmichael.	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiguhill.	Grange.	Keith.	Botriphnie.	Mortlach.	
1	x	x	dry	x	x	*	8	1	1	1	1	x	x	x	Frequent.
2	dry										×			*	
3			-	0											
4	1	x	dry	x	x	x	*	x	1	x	1	x	x	x	Common.
5	1	x	0	x	x	x	x	x	!	1	1	x		x	
6															Coast.
7	1	x		x	x	1	x	1	1	1	t	x	x	x	Common.
8	dry	x	1	x	x	1	*	1	1	1	1			x	Common.
9	1	x	*	x	х	1	*	1	1	1	1	1	x	x	Common.
10			1	0				,							
11	1	x	dry	x	x	1	*	1	1	1	1	1	x	x	Common.
12	*	х	dry	x	x	.*	*	x	1	x	1	x	x	x	Not so common as next.
13	1	х	dry	x	x	1	*	1	1	1	1	1	х	x	
14			i								1			x	
15				*)	1					0	Rare.
16	*	x	dry	x	i	*								0	
17				0		-				2					
18				0											
19		x		,			x		1	X	x	X			
20						*					0	*			
21						x				1					
22			*				*						x	x	Common.
23	1	x	;	x	X	1	*	1	1	1	1	1 x	x	x	Continon
24	1	x	dry	x	x	x			i	1	1	^	A		
-	-	-	-	Street Street	-		-	-	-	-	-	-	-	-	

		Bellie.	Rathven.	Cullen.	Fordyce.	Boyndie.	Banff.	Gamrie.	Alvah.	King-Edward.	Turriff.	Forglen.	Marnoch.	
GRAMINEAE - ('ontd.		-										e. ~ · · · ·		i
Phragmites communis, Trin		L				1			0					
Cynosurus cristatus, Linn		2 1	1	2	1	1	1	1	t	1	1	1	:	
Koeleria gracilis, Pers		3 !	x	x	1	1	1	1	0					
e. britannica, Domin		4												
Molinia cœrulea, Moench		5 !	1	1	x	!	1	19	0		0			
b. depauperata, (Lindl.):		6												
Catabrosa aquatica, Beauv	1 1	7				1								
Melica nutans, Linna		3												
Dactylis glomerata, Linna		1	1	1	1	1	1	1	1	1	!	1	1	
Briza media, Linn	1 10)			1	1			0					
Poa annua, Linn	1	1	1	1	!	1	1	1	1	1	1	!	. 1	
P. alpina, Lium	1:	3												
P. nemoralis, Linn	1 13	3									0	x		
d. divaricata, Syme	1	l .												
P. compressa, Linn] 18	5												
P. pratensis, Linn	10	5 1	1	1	1	1	1	1	1	0	!	1	1	
P. trivialis, Linn	17	1			t	!	1	1	1		0	1	1	:
Glyceria fluitans, Br	18	3 1	1	1	1	1	1	1	!	!	1	!	1	
G. plicata, Fr	19					1								
G. aquatica, Wahlb	20						1		0	0	0	1		×
G. maritima, Mert. & Koch	21			1	1	1		1						
G. declinata, Bréb	22	3]												
Festuca bromoides, Linn:	28	r	1				1	1	*		0			
F. ovina, Linn	24	1	1	1	1	1	1	1	1	0	1	1	x	2

ghrandwills	Rothiemay.	Cairnie.	Cabrach.	Kirkmichael.	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiquhill.	Grange.	Keith.	Botriphnie.	Mortlach.	
-		-	+	-											
1		x	1												Rare.
2	1	x	*	x	x	1	*	1	1	1	1	1	x	x	Very common.
3			1								0			0	
4				0											
5	*	x	x	x	x		*	1	1	1	1		x	x	Locally common.
6				x											
7															
8				0		?						0			
9	1	x	x	x	x	!	*	!	1	!	1	1	х	x	Very common.
10	1	x	dry	x	*	*	*	x	1 1	1	1	!	x	*	Locally common.
11	1	x	x	x	x	1	*	1	1	1	2	1	x	x	Very common.
12		1		0		,									
13	*			×	*	x	x	×	1		1			x	
14				0											
15									1						
16	!	x	*	x	x	1	*	1	1	1	!	!	x	x	Frequent.
17	1	x	*	x	x	*	*	1 1		1	x	x	x	x	Frequent.
18	!	x		X	x	x		1	1	1	1	!	x	I	Common.
19	*	1													Very rare.
30		1	1												By Deveron. Coast—frequent.
32		1		0											Coast—frequent.
23		1							1		1	x			
34	1	x	*	x	x	*	x	1	1	1	1	1	x	x	Common.
		1													
		1													

			Bellie.	Rathven.	Cullen.	Fordyce.	Boyndie.	Banff.	Gamrie.	Alvah.	King-Edward	Turriff.	Forglen	Marnoch.	Inverkeithnie
FRAMINEAE —Contd.		1									d	N 798			
F. rubra, Linn		1	1	!	1	1	1	x	!	0	0	!	1	x	х
g. arenaria, Fr		2		x											
F. sylvatica, Vill		3													
F. pratensis, Huds		4								0					
F. elatior, Linn		5				*	*		0	0		0	x		
F. unioloides, Willd	• • •	G		*											
Bromus giganteus, Linn		7				ж	0		0	0			x		
B. ramosus, Huds		8				*	*		0	0		x			
B. sterilis, Linn		9				*	*	0		0					
B. secalinus, Linn		10													
B. commutatus, Schrad		11							0	C	0	0			x
B. hordeaceus, Linn		12	1	1			!	1	!	!	0	0	1	*	
Brachypodium sylvaticum, Roen	n. &														
Schult		13		1		!	x		1	0	0				
Lolium perenne, Linn		14	1	1	1	!	1	1	1	1	t	1	1	1	x
c. multiflorum, (Lam.)		15	:	1	1	1	1	1	1	!	1	1	1	1	
L. temulentum, Linn		16													
Agropyron caninum, Beauv		17										0			
A. repens, Beauv		18		1	1	1	1	1	1	1	Ť	1	1	!	x
b. Leersianum, Gray		19			1	x	t	1	0	x	0	0	x		X
A. junceum, Beauv		20	1	t		x	1	1	1						
× repens	***	21						t	1						
Nardus stricta, Linn		22	1	1	1	1	1	i	1	1	0	0	1	1	x
Hordeum murinum, Linn	***	23													

9 9	_	_	,	-	_									_	, , , , , , , , , , , , , , , , , , , ,
	Rothiemay.	Cairnie.	Cabrach.	Kirkmichael.	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiqubill.	Grange.	Keith.	Botriphnie.	Mortlach.	
1 2 3	x	х	x	x	x		x		1	1	1	x 0	x		f. vivipera also occurs.
4 5	*	x				*	*	x		x		x	x	0	
6 7	x								1			0			Rare.
9 10	*				*		x					x		0 0	
11 12	!	x	*		*	1	*	1	î	t	ī	* X	ж	x	. Common—f. pumila also occurs.
13	*	x	*	x	x	*	*	x	1	1	1	0	x	x	Local. Very common.
15 16	*	x				1	*	1	1	9	1	1		x	Common.
17 18	i	x	*	0 x	*	*	*	!	1	1	1	1	x	x	Rare. Very common.
19 20 21	X	ж		X	x				1			x	x		Common. Coast. Coast—rare.
22	!	x	*	x	x	90	x	!	1	1		x	x	x	"Only one specimen."

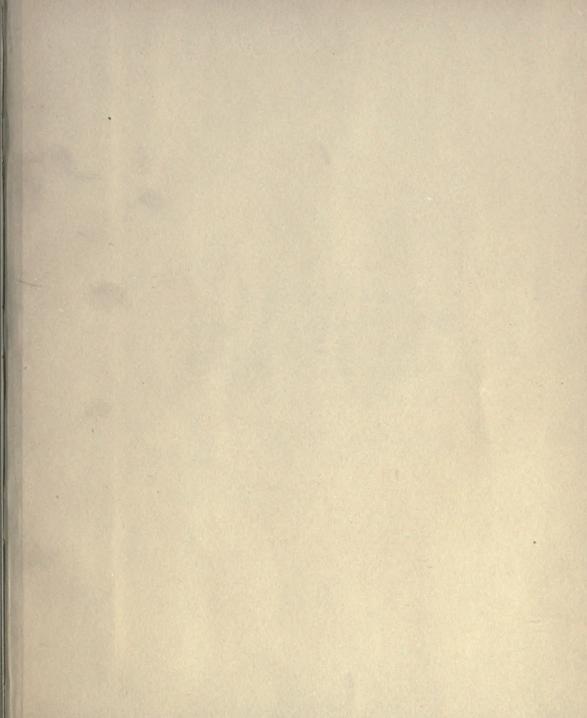
		Bellie.	Rathven.	Cullen.	Fordyce.	Boyndie.	Banff.	Gamrie.	Alvah	King-Edward	Turriff.	Forglen.	Marnoch.	
GRAMINEAE —Contd.						Ħ								
Elymus arenarius, Linn	1					?!								
FILICES.														
Pteris aquilina, Linn	2	1	1	1	1	1	1	!	!	1	1	1	1	
Blechnum Spicant, With	3	i	1	1	1		!	1	1	1	1	1	1	
Asplenium Adiantum-nigrum, Linn	4					0		1	0	1				
var. serpentinum	5													
A. marinum, Linn	6		1					1						
A. viride, Huds	7													
A. Trichomanes, Linn	8							0						
A. Ruta-muraria, Linn	9								1					
Athyrium Filix-fœmina, Roth	10			!	x	1	1	1	1	0	1	1	1	
Phyllitis Scolopendrium, Newm	11							0			0			
Cystopteris fragilis, Bernh	12							0	0		0			
b. dentata, Hook	13													
Polystichum lobatum, Presl	14							0			0			
P. Lonchitis, Roth	15									2				
Lastrea montana, T. Moore	16								*					
L. Filx-mas, Presl	17		1	,		1	1	1	1	1	1	1	1	
L. spinulosa, Presl	18													
L. aristata, Rendle & Britten	19	1	1	1	!	1	1	1	1	1	1			
Polypodium vulgare, Linn	20		1	1	x	1		1	1		0	*		
Phegopetris Dryopteris, Fée	21		1					0	1		0			
P. polypodioides, Fée	22							0	0	0				
0.11.1	23							0						
Ophiogiossum vulgatum, Linn	20							U						
			1											
		_	-	-		-	-	-	-	-	-	-	-	ø

-	Au-dray-cod	9425,E.0000	-				-					-		-	
	Rothiemay.	Cairnie.	Cabrach.	Kirkmichael	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiquhill.	Grange.	Keith.	Botriphnie.	Mortlach.	
1															Doubtful—flowers not seen.
2	1	x	x	x	x	1	*	1	1	1	x	1	x	x	Common.
3	1	x	*	x	x	1	*	1	1	1	1	1	x	x	Common.
4			*			*	*		Ì					0	Rare.
5			dry						1						On serpentine rocks.
6								-				1			Coast—local.
7			*												
8			*			*	*]	I				*		0	
9						*								x	Rare.
10	1	x	*	x	x	1	*	1	1	1	x	1	x	x	Common.
11															
12			X				.]							0	
13	?			0	1		. 1							0	
14					1		1						x		
15			*												
16		x	dry	x		*				1	1		x	x	
17	1	x	dry	x	x	1	*	1	!	1	1	1	x	x	Common.
18				0	-										
19	!	X	dry	X	X	!	*	1	1	1	5	1	x	x	Common.
20		X	*	X	x	1 1	*	1	1			!		x	Common.
21			X		-	*		х	1			*	x	x	Local—nowhere common.
22												*	X	x	Local—nowhere common.
23							-								
1							1								
					i i										

			Bellie.	Rathven.	Cullen.	Fordyce.	Boyndie.	Banff.	Gamrie.	Alvah.	King-Edward.	Turriff.	Forglen.	Marnoch.	Inverteithnia
FILICES —Contd.															
Botrychium Lunaria, Sw	•••	1				0	1		1	1					
EQUISETACEAE.															
Equisetum arvense, Linn.,		2	1	1	1	1	1	1	1	1	1	1	*	1	1
E. sylvaticum, Linn		3		t		1	1	1	1	1	1	0	1	!	١
E. palustre, Linn		4	İ			1	1		1	0		0		, 1	
E. limosum, Linn.		5	1	1		1	1	1	1	1	1	0	*	1	
b. fluviatale, (Linn.)		6	1												
E. hyemale, Linn		7	1	и						1					
LYCOPODIACEAE.															
Lycopodium Selago, Linn		8													
L. annotinum, Linn		9				0									1
L. clavatum, Linn		10		1					0		1				
L. alpinum, Linn		11								0					
b. decipiens, Syme	.,.	12				x			1						
SELAGINELLACEAE.															1
Selaginella selaginoides, Gray.		13				x	1								
CHARACEAE.									1		,				
Chara fragilis, Desv.?	•••	14					1		-						
C. spp	•••	15		1			1		1						
Nitella opaca, Agardh		16						-			1				
N. sp	***	17							di samanana di samana di s			-			
		* * * * * * * * * * * * * * * * * * * *							To appear the property of the						
		The second secon													

after property				p-0100-01-0	-	,	,		 	-	-			-	
	Rothiemay.	Cairnie.	Cabrach.	Kirkmichael.	Inveravon.	Aberlour.	Knockando.	Boharm.	Deskford.	Ordiquhill.	Grange.	Keith.	Botriphnie.	Mortlach.	
1			dry			*		1						C	Rare.
2	1	x	*	x	*	1	*	1	1	1	1	1	х	x	Very common.
3	1	x	*	x	x	1	*	t	1	:	1	1	х	x	Common.
4	!	x	*	x	*	1	*	1	1	1	1	x	х	x	Locally common.
5		x	*		*	!	*		!	1	!	x	x	x	Common.
6									:			x			With type—frequent.
7			dry									1			Rare.
8	x	x	dry	X		*		i		İ	1	*		X	
9	x	x	3	0		0 *	*								
11	A .	x	dry	x		*	*	X		!	1	!		x	
12		^	ary	0		Z		x		!	1			x	-
12			10	0		-2				•					
13		х	x	x	x	x		1		!	1			x	Local.
															13000
14															Rare.
15		x	*								Z	X			Rare.
16				0											Rare.
17												x		- 1	Rare.
									1						







PLEASE DO NOT REMOVE CARDS OR SLIPS FROM THIS POCKET

UNIVERSITY OF TORONTO LIBRARY

QK Craib, William Grant
308 The flora of Banffshire
C8
Biological
& Medical

